

# MANUFACTURERS' RECORD

A Weekly Southern Industrial and Hardware Newspaper.

VOL. XIV. No. 1.  
WEEKLY.

BALTIMORE, AUGUST 11, 1888.

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Works: FRANKFORD AVE., WILDEY & SHACKANAXON STS.  
Branch Office, 108 Liberty Street, NEW YORK.

## Report of the AQUEDUCT Commissioners.

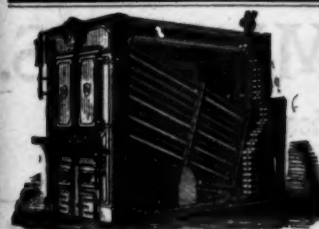
(NEW CROTON AQUEDUCT, NEW YORK.)

AN ELABORATE VOLUME, CONTAINING AUTHORITATIVE TABLES BY THE CHIEF ENG., B. S. CHURCH. JUST ISSUED.

Number of Ingersoll Drills used.....	249
Number of Drills of all other kinds used.....	103
<b>PROGRESS</b> (by actual figures from Table 8.)	
Average weekly progress in best 10 headings that used Ingersoll Drills exclusively (omitting all idle weeks).....	38.72 ft.
Average weekly progress in best 10 headings that used other drills exclusively (omitting all idle weeks).....	31.58 ft.
DIFFERENCE OF 26 PER CENT. IN FAVOR OF INGERSOLL DRILLS.	

All headings where Ingersoll Drills were used exclusively have been completed. Send for description of Aqueduct, with Engineers' Tables of Progress and Catalogue. Sent free.

**INGERSOLL ROCK DRILL CO.,**  
10 Park Place, New York City.



## ROOT'S NEW WATER TUBE STEAM BOILER,

Safe, Economical, Durable.

Recently adopted by the BRUSH ELECTRIC LIGHT CO., at Louisville, the EDISON ELECTRIC LIGHT CO., Detroit, and the COLUMBUS EDISON ELECTRIC LIGHT CO., Columbus, Ohio.

**Abendroth & Root Manufacturing Co.**

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CHAR. E. ASHCROFT, Eng., 69 Mason Bldg., Boston, Mass.  
V. MERRILL, 149 N. Third Street, Phila., Pa.  
WM. H. SMITH, Eng., 64 & 66 South Canal St., Chicago, Ill.  
A. S. FISKE, Eng., 64 Johnston Building, Cincinnati, O.  
A. S. FISKE, Eng., 84 Corn Exchange, Minneapolis, Minn.  
T. B. PACKER, Machinery Building, Kansas City, Mo.  
JOHN S. MOORE, 188 Gravier Street, New Orleans, La.  
S. C. DODGE, Chattanooga, Tenn.



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OVER 300,000 NOW IN USE. THE LIGHTEST, STRONGEST, BEST BALANCED and CHEAPEST in the WORLD.

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The Most Simple, Reliable, Durable and Economical in Existence.

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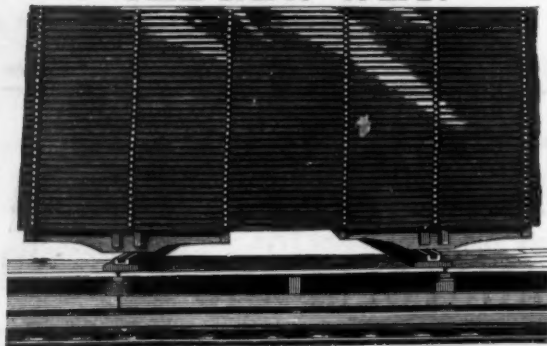
"I consider it the greatest improvement that has ever been made in breweries."—FRED. PARST, President Ph. Best Brewing Co. "We are thoroughly satisfied with your machine, and we believe it is superior to any other in the market to-day."—HENRY G. KUERT, President Atlanta City Brewing Co., Atlanta, Ga.

Estimates for Ice or Refrigerating Machines furnished on application.

Refer to over 125 Machines in successful operation.

## The Smith Automatic Lumber Stacker.

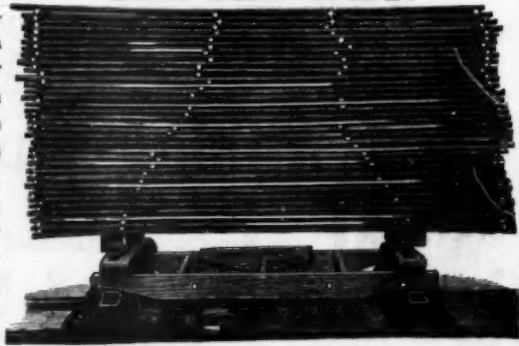
### THE NEW WAY.



Photograph of lumber stacked by the machine on our patent trucks, which are a part of machine.

There was illustrated by the MANUFACTURERS' RECORD on March 24, 1888, a machine for stacking lumber on trucks for dry kilns. The machine has been in Successful Operation in the mill of the owners of the patents for more than two years, and is now offered to the trade. Any mill stacking for dry houses as much as 15,000 feet of lumber per day will, by using this machine, save enough every year to pay for same. For further description, prices, etc., apply to the undersigned—who refer to the editors of this paper. In writing for information name this paper.

### THE OLD WAY.



Photograph of hand stacked lumber.

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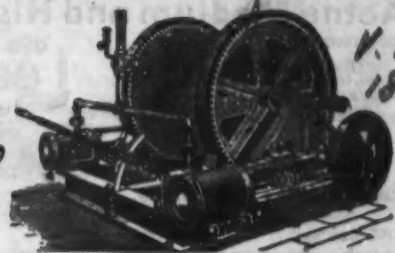
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FURNACE HOISTS,

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FOR MANUFACTURING.



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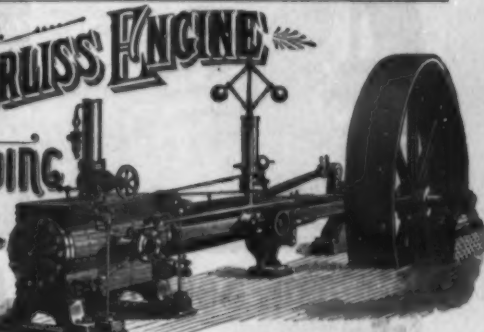
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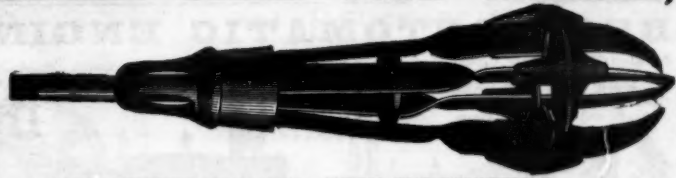
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For Cleaning  
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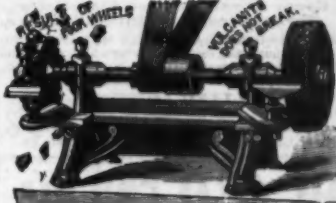
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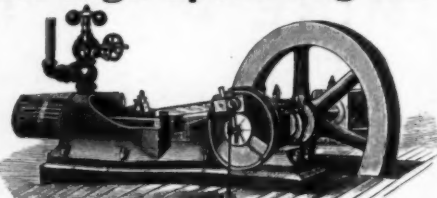
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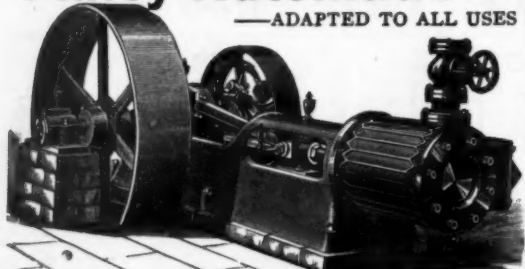
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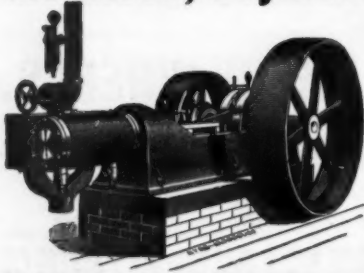
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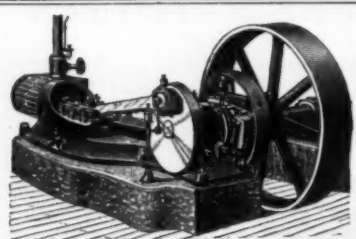
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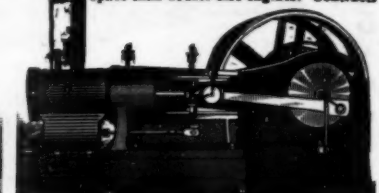


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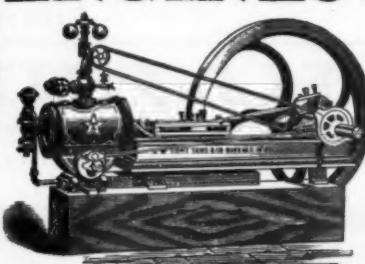
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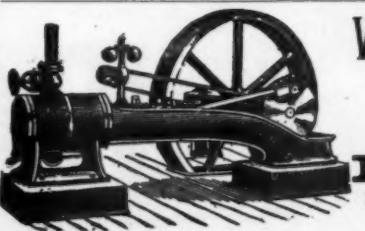
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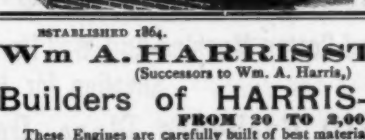
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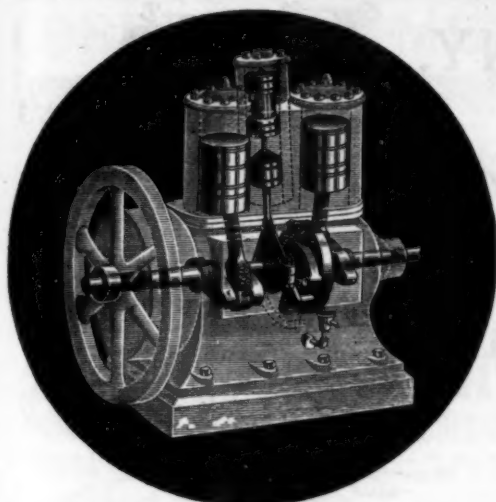
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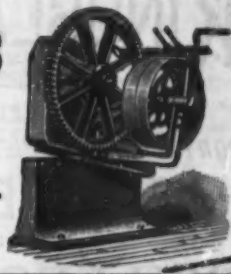
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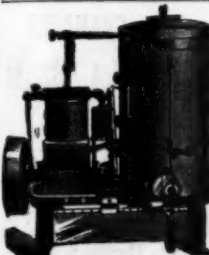
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No dust, ash, or smoke. No Skilled Engineer required. "Break" Tests  
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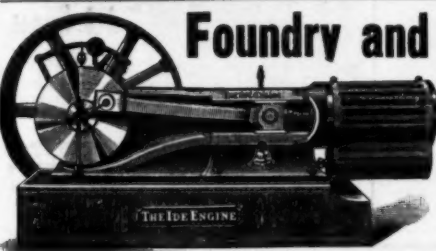
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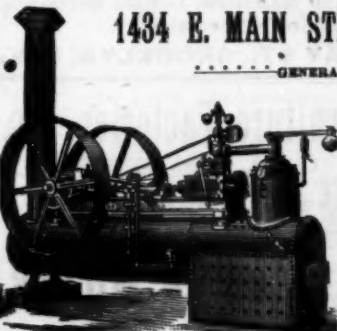
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Hotchkiss Mechanical Boiler Cleaner, Corliss  
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Steam Cocks, Injectors and  
BELTING.



### TO OBTAIN DRY STEAM, \*

USE THE

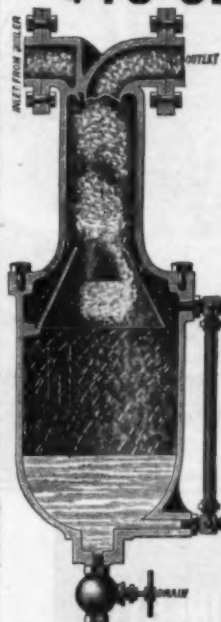
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This is the only apparatus that automatically separates  
WATER FROM STEAM IN CONFORMITY WITH NATU-  
RAL LAWS. Speed of current is utilized to produce centri-  
fugal action and separate the water from the steam, making the  
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when this apparatus is used. It is endorsed and in use by the  
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Houses, Paper Mills, Water Works, and Steam Vessels, on  
which it has greatly increased their Power and Speed.

Over 20,000 Horse Power in Use.

The Stratton Separator was awarded the Medal of Excel-  
lence at the exhibition of the American Institute for 1886, and  
the Medal of Superiority in 1887.

Approved and adopted for use in the United States Navy  
July 10, 1890.



### The Stratton Separator Co.

32 CORTLANDT ST., NEW YORK.

### Corrugated Metal Gaskets.

[PATENTED.]

Are the most reliable for flange connections; made plain, oval,  
square and irregular for Pipes, Cylinders, Valves and  
Chests. Is not affected by water, steam, gas, oil, vapors or  
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Acknowledged and recommended by Engi-  
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in use. Advantages—1. It has no springs or  
screws to break. 2. The steam can be turned  
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is all we ask. Manufactured by J. REGESETER & SONS, BALTIMORE, MD.



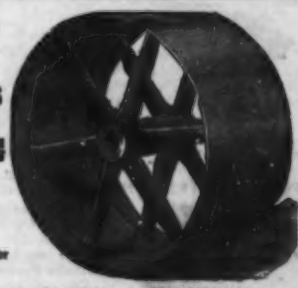
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Shafting, Hangers,  
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PULLEY CASTINGS  
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FINE GRADES OF LATEST  
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OF EVERY DESCRIPTION.

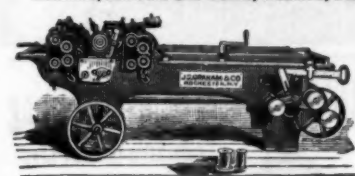
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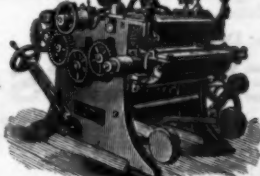
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Manufacturers of Planers and Matchers, Surfacers, Timber Planers, Resawing Machines, Gang Ripping Machines, Self-Feed Saw Tables, Moulders, Pony Planers, Etc.



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MANUFACTURERS OF

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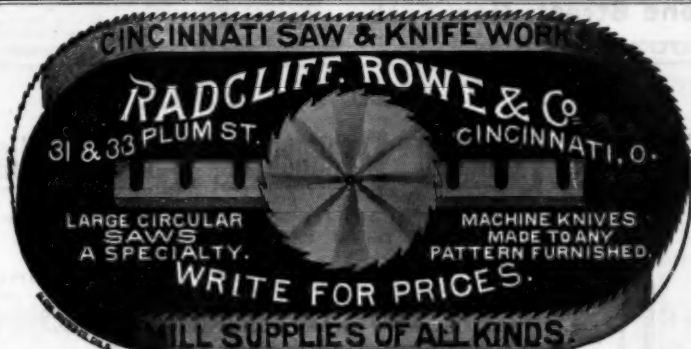
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43, 45, 47, 49 AND 51  
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PLANING MILL MACHINERY A SPECIALTY.



ESTABLISHED 1832 ON PRESENT PREMISES.

The Best

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BUY OUR

COLOPHINE

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Perfect Oils

The above are our specialties in MACHINERY OILS, and are the best oils for the price manufactured. We can give you anything in the OIL LINE, any grade, at the very lowest prices. Correspondence solicited.

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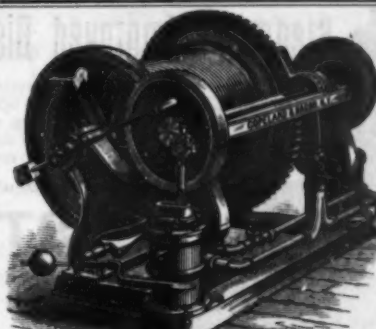
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A full line of machinery carried in stock. Contractors for Diamond Drill Prospecting. Send for catalogue and prices.

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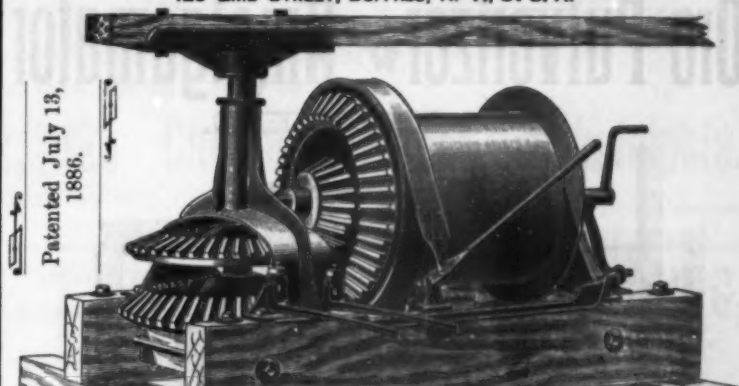
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AN IMPROVED HORSE POWER HOISTING MACHINE, with a combination of fast and slow speed. With fast speed a horse will lift 1,000 to 1,500 lbs. on a single line at a speed of 60 feet per minute, and with a single block 3,000 lbs. 40 feet per minute. With the slow speed a weight of 1 1/4 tons with a single line, and with a single block 3 tons; with two single blocks 5 tons; with double and single blocks 7 tons. The speed single line 30 feet per minute, with single block 15 feet per minute.

In this combination of gears the user has the advantage of two machines embodied in one, with a saving of 25 per cent. in cost and 60 per cent. in weight.

**SIMPLE, DOES NOT GET OUT OF ORDER.**

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Miners, Masons and Builders.

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The Best in the world for the money.

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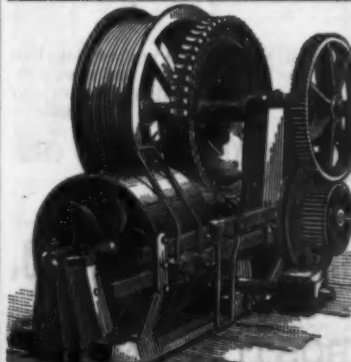
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This Mill will disintegrate or pulverize materials of all kinds, for brick and tile, for cement and fire brick, and slag from open air furnaces for use in rolling mills, and materials for foundry facings, iron ores, animal matter in almost all conditions,—in fact almost any material that can be disintegrated. It is an improvement over any yet made and the result of practical experience.

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Detachable in every Link

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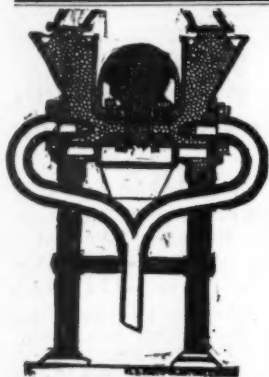
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The principle of pulverization consists in the employment of

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10 to 200 Tons Per Day,

including a Sectional Steam Boiler supplying all the power required.

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L. F. HOLMAN, Pres.

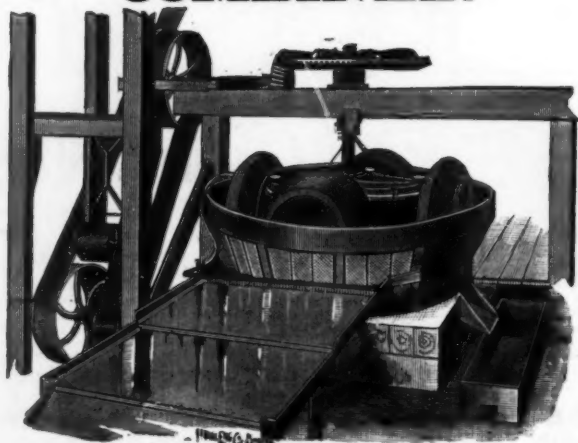
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Sectional View of Pulverizer.

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GENTLEMEN—After carefully inspecting your mill and seeing it in operation, I do not hesitate to say that it is one of the best, if not the best pulverizer and most complete gold saving machine I have ever seen. Please accept congratulations for your success.

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WE FURNISH A COMPLETE MILL FOR \$2,500, DELIVERED ON BOARD CARS.

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For Surface or Underground Prospecting.

The Only Drills that will give an Accurate Record of every Strata Penetrated.

ALL DRILLS SOLD WITHOUT RESTRICTIONS.

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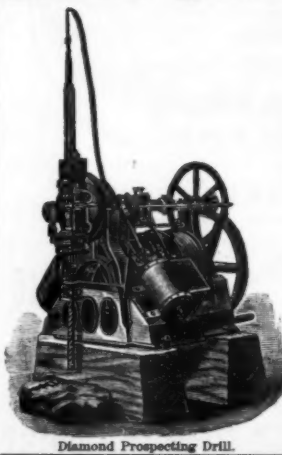
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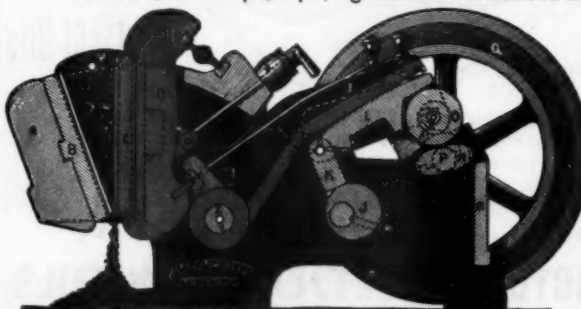
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The Newest, Most Simple, Rapid, Lightest and Most Effective Crusher Extant.



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*Beg to call the attention of Worsted Spinners and Manufacturers to their Improved Machinery for*

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The BEST OAK LEATHER is used in the construction of these Pickers, and the workmanship is superior to any other make.

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CARD CLOTHING of Every Description,  
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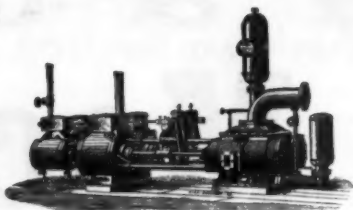
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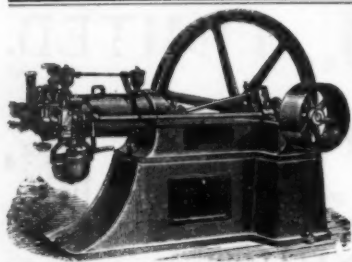
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Milled Machine Screws,  
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Smith's Patent. Patented June 5, 1883.

Instantaneous Clutch. No Lost Motion. Noiseless.

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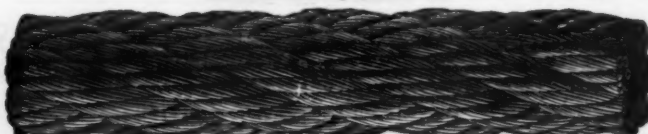
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PUBLISHED EVERY SATURDAY BY THE  
MANUFACTURERS' RECORD CO.

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—OFFICE—

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BALTIMORE.

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BALTIMORE, AUGUST 11, 1888.

**Cordesman, Meyer & Co., Manufacture  
of Wood-Working  
Machinery.**

CINCINNATI, O., January 11, 1888.

*Editor Manufacturers' Record:*

We are highly pleased with the returns from our advertisement in your journal, and take pleasure in commending it to others in our line as a valuable medium for reaching the trade. Yours very truly,  
CORDESMAN, MEYER & CO.

**F. F. Waters Manufacturing Co., Manufacture  
of Smith's Patent  
Friction Drill.**

BOSTON, MASS., February 4, 1888.

*Editor Manufacturers' Record:*

It gives us pleasure to state that our "ad." in the MANUFACTURERS' RECORD has brought us, on the average, about 30 letters per month. We consider it a paying investment. Respectfully,

F. F. WATERS MFG. CO.

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Patent Household Articles.**

ERIE, PA., March 10, 1888.

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THE F. F. ADAMS CO.

**Fletcher & Thomas, Manufacturers of  
All Kinds of Brick-makers'  
Supplies.**

INDIANAPOLIS, IND., April 6, 1888.

*Editor Manufacturers' Record:*

We are happy to say that the direct results from our advertisement in the MANUFACTURERS' RECORD have been very satisfactory. Our trade throughout the South since January 1 has more than doubled that of last year, and very largely we know this has come from the fact of your paper reaching to all quarters, and directly to those who are looking for improved machinery. Hardly a day passes that we do not receive letters saying "we see by the MANUFACTURERS' RECORD that you have improved brick machinery, etc. etc." We heartily recommend your paper as a medium for reaching the people. Yours very truly,  
FLETCHER & THOMAS.

**Garcin, Moseley & Böhmer, Sales  
Agents Southern Rubber Co.**

RICHMOND, VA., April 26, 1888.

*Editor Manufacturers' Record:*

We desire to write you our opinion as to how we regard the MANUFACTURERS' RECORD as a reliable source of information and as an advertiser. We are pleased to say we have found it to be by far the most reliable paper of the kind published, and, as we have subscribed to all kindred papers, we think we are in a position to judge. We have discontinued all subscriptions to papers purporting to be of the same class, as we find all the information regarding the erection of new enterprises in the MANUFACTURERS' RECORD about one week ahead of any of the other journals. Through your Construction Department we have secured some of the largest orders placed in the South for rubber and leather belting, among them that of the Empire Lumber Co., at Empire, Ga., to whom we furnished some \$2,000 worth of belting; the Orange Park Lumber Co., at Orange Park, Fla.; the Brenham Oil Works, Brenham, Texas, and many others too numerous to mention. We cheerfully give you an advertisement, and feel assured that the money is well spent. We will say we do not believe in newspaper advertising, and your paper is the only one in which we would care to have an advertisement of any kind. We have been subscribers to the MANUFACTURERS' RECORD for three or four years, and intend to keep up our subscription as long as the paper is published. Very truly,  
GARCIN, MOSELEY & BÖHMER.

## Another Period of Great Activity.

All signs point to the coming of another period of great activity in the South. From week to week the MANUFACTURERS' RECORD has told of the brightening prospects, and in our last issue it was said that "the combination of great agricultural prosperity—great at least as compared with any other year since the war—and vast manufacturing and railroad interests, bringing wealth to the laborer and capitalist alike, is rapidly making the whole South rich, and unless all signs fail, or some widespread disaster overtake the cotton crop during the coming month, we may look for a season of such business activity as the South has never known before." The signs of this coming activity are seen in every direction in the organization of great manufacturing, mining and railroad enterprises, the investment of immense amounts of Northern capital, the trend of immigration Southward, the buoyancy of Southern business men as they realize the magnitude of the crops, now almost safe, and in hundreds of other ways. Only last week we announced the organization of two great iron enterprises with aggregate capital of \$1,750,000 to build three new furnaces at Bessemer. This week Sheffield comes to the front, with a sale subject to ratification by the stockholders, of the entire property of the Sheffield Land, Iron & Coal Co. to Eastern capitalists. This is one of the largest deals of the kind ever made in the South, as it involves the payment of from \$1,750,000 to \$2,000,000, of which about \$1,000,000 is to be in cash and the investment by the purchasers of another million in new enterprises. If consummated, of which there seems to be no doubt, it will put about \$3,000,000 of new capital into Sheffield.

Another enterprise of great magnitude is the organization of a coal company with a capital of \$6,000,000, much of it from the East, to purchase and consolidate under one management the four coal companies now operating in the Jellico district of Eastern Kentucky. At Cartersville, Ga., contracts have been made for building two new furnaces, and in all directions new enterprises are being organized. These are but a few of the signs which point to coming events, and which indicate what will be seen this fall throughout the South.

After the boom of the latter part of 1886 and the early part of 1887, there must of necessity have come a breathing spell. The progress had been so wonderfully rapid that people had to stop and see how matters stood and wait for the completion of the great enterprises which had absorbed all the floating capital of the South. Even during this resting season there has been no lack of activity, except as compared with the period of the great boom. Now after a year of effective work in the construction of

the enterprises begun in the early part of 1887, there are evident signs of a renewal of the activity which marked that period. In all probability we are soon to see an almost unexampled activity in Southern business interests and in the organization of industrial enterprises. Northern capital will be poured into the South more liberally than ever before, and this, united with the constantly increasing wealth of the South, will cause an era of great activity.

## Misleading Statistics.

The Birmingham News has constructed the following remarkable table to show, as it says, the annual income which the three States of Alabama, Tennessee and Georgia will soon be enjoying from their cotton, coal and iron industries:

Cotton (4,000,000 bales).....	\$161,000,000
Iron.....	\$2,000,000
Coal.....	3,000,000
Cotton goods.....	9,000,000
Total.....	\$175,000,000

If this was published with a view to magnify the farming interests at the expense of manufactures the reason for the incorrectness of the figures might be understood, but on any other ground it is hard to see how a Southern paper professing to know anything of its own section could make such mistakes.

The cotton crop of these three States averages less than 2,000,000 bales a year instead of 4,000,000 bales, so the \$161,000,000 can be reduced about one half, or to \$80,000,000. There is no probability of this being largely increased in the near future, for the increase in farming operations in these States will mainly be in diversified products and not in cotton.

Instead of the iron output of the three States being only \$22,000,000, it will be fully double that when the production of pipe works, machine shops, etc., is taken into account. The production of cotton goods in these States is nearly one-half of the entire output of the South, and last year was a little over \$20,000,000—the entire South producing upwards of \$43,000,000 worth a year. So the \$2,000,000 for cotton goods must be raised to over \$20,000,000. The output of coal in these States in 1887 was valued at the mine, according to the report of the United States Geological Survey, at \$5,410,000, and this year the figures will be very much larger.

The truth is these three industries of iron, coal and cotton manufactures in Alabama, Tennessee and Georgia fully equal even now in annual value the value of the cotton which they produce, and it will be but a very few years before they will be worth doubly as much. Before the census of 1890 is taken the value of Alabama's manufactured products will exceed the entire value of all its agricultural products, cotton, corn and everything else included.

## A Great Southern Gold Field.

A veteran civil and mining engineer, Mr. William G. Atkinson, of New York city, has favored the MANUFACTURERS' RECORD with an interesting manuscript treatise on the gold fields of the South. Mr. Atkinson, a Virginian by birth, was for many years employed in his profession in States south of the Potomac, and being a practical as well as scientific geologist, he acquired an extensive knowledge of their mineral wealth. For some time after the breaking out of hostilities he was connected with the engineering force of the Confederacy, but later he was detailed for special duty by the War Department, and all his time was occupied in prospecting for coal, iron, lead and other materials required for military and naval purposes. These explorations were made principally in Virginia and North Carolina, and in his search for lead he examined the chief gold fields of both States, and was astonished at their evident richness. Since then he has traveled extensively in other sections on professional business, and has been more and more impressed by the constantly accumulating evidences he has met with of the unlimited value and the great variety of the South's mineral resources. We take pleasure in giving a synopsis of Mr. Atkinson's manuscript. In doing this we avoid technical terms as much as possible, and give only the principal arguments, facts and figures. Mr. Atkinson wishes it distinctly understood that his interest in this subject is unselfish and patriotic. He writes that younger men may have the benefit of his information, and that the development of Southern resources may be hastened. His treatise in substance says:

There is in the States of Virginia, Tennessee, North and South Carolina, (and possibly in Northeastern Alabama,) much gold-bearing territory, some of which is more richly stored with this precious metal than are any of the most famous of the Rocky Mountain mining districts. Why it has received so little attention from this generation, while other places less liberally endowed by nature have been the scenes of wonderful development, is for others to determine according to their lights or their prejudices. That question does not interest the writer. What he desires is to state facts as he has found and proved them, and to present them, through the courtesy of the MANUFACTURERS' RECORD, to its large circle of readers, that many younger men than he may awaken to a knowledge of the immense but almost unknown treasures of gold imbedded in the mountains and plains in and on either side of the great Appalachian range. Should this statement of actual facts be received with one-quarter the faith that the world has given unstintingly to those made by Western and Pacific coast promoters, there will begin in



the South a gold production that will speedily rival in value the output of the palmiest periods of California and Australia. Gold in these several fields is found in the same surroundings and in similar combinations as in Brazil, Guiana, Central America, the Pacific coast mines and Australia. The placer beds generally contain "drift" of the diluvial or ancient and the alluvial or more recent formations. They alike consist of the wreckage or debris of former geologic systems, which were disrupted by convulsions in the interior of the globe, which debris was in the course of ages washed far from where it was created, and finally lodged where it is now. Geology does not attempt to account for every phenomena it encounters. It is a descriptive, and, to a rational degree, a definite science. It studies, compares and reaches safe general conclusions, but it never can be absolutely sure, for nature seems to delight in caprices. Prospectors and miners know this by sore experiences, especially those that have had to do with deep mines. "Cross courses," "dykes," "upthrows and downthrows," are frequent causes of disappointment, vexation and serious loss, but those who have the courage to persevere can generally find the lost vein and so reap their reward. Every one mining in solid rock veins of the Azoic and the Metamorphic systems must expect to encounter these difficulties, which, however much they may annoy practical miners, certainly make petrology a most interesting branch of scientific study.

But, while rock formations containing rich gold-bearing veins are abundant in the States already named, there are also placer fields of considerable extent free from these natural difficulties. There are official records, both State and national, that corroborate the testimonies of scientists and practical miners. These numerous testimonies relate to the placer beds of Virginia, both Carolinas and Georgia. While the operations in this class of mining in the Atlantic gold belt have been extremely desultory and irregular, yet enough facts and rich results have been obtained to justify the prediction that were the capital, energy and perseverance of Colorado applied to the Southern gold field, the returns would be of surpassing value. The writer knows of numerous placer beds in Virginia which, worked only by the crudest methods at irregular intervals, have yielded large returns in the shape of nuggets, spangles, buttons, beads and dust. There are well-attested records showing that in various localities large sums have been taken from small spaces (not pockets) varying in size from 60 to 200 square feet. In one place well known to the writer more than \$10,000 was realized in less than a month from the work of six slaves under the direction of their owner. Similar results were obtained before the war in all the

States between Maryland and Alabama. If, with slave labor and the crude methods of former centuries, those who sought gold in the placer beds of the South were richly repaid, how much greater will be the reward of those who employ all modern appliances which science has recommended and practical miners have found efficacious.

The history of gold discoveries in the United States accurately written, as it will be some day, would make a story of surpassing interest. It is not generally known that the first "finds" of nugget gold were made almost simultaneously in California and North Carolina in the last decade of the eighteenth century. While the discovery on the Pacific coast caused no excitement, for the knowledge of it did not reach the world until a much later period, the find in the "Old North State" soon caused a rush to Mecklenburg and the counties surrounding it. It gave also a strong incentive to prospecting in adjoining States and to careful geological investigations. These last resulted in such wonderful discoveries that North Carolina has been for three quarters of a century the favorite field for American geological studies. Many eminent men have devoted much time, scientific knowledge and experience to these explorations, and have published their results, and were all the knowledge they acquired collated and printed in one volume, it would form a work of inestimable value as a guide to students of geology, to practical prospectors and to capitalists.

As the writer is better acquainted with the gold fields of Virginia and North Carolina than with those of other States, and as those in the latter are superior to the first in extent and richness, he will confine himself to a general statement about them, at the same time declaring his conviction, based upon the proofs he has been able to gather from records and from persons he regards as reliable, that when the gold fields of Tennessee, South Carolina and Georgia shall have been thoroughly examined by men as eminent in science as were those who explored North Carolina their conditions will be found to be equally promising.

The gold belt of North Carolina pursues a diagonal course, that is to say, it is oblique to the meridian. It is found in at least twenty-five counties lying east and west of the Blue Ridge. The entire length of this diagonal belt is 230 miles, and the approximate transverse width, measured at right angles to the long axis or meridional bearing, is probably from 170 to 190 miles. Measured on the boundary where it enters the State from Virginia, its length in a straight east and west line exceeds 120 miles, while at the South Carolina boundary it has a length of more than 250 miles. A line drawn across the State rectangular, transverse to and midway of this gold belt makes

Burke county its center. While it does not necessarily follow that the richest gold deposits are to be found in that county, it does indicate that locality as an excellent one in which to begin prospecting and geological explorations. As placer mining has been successfully prosecuted in that and in adjoining counties many years, we have, in fact, corroborative evidence that it is both the geographical and the actual center of the gold formation of the State. Other facts support this theory. Burke county lies among foot hills and spurs of the Blue Ridge mountains. Crossing that range and going westward numerous other mountain spurs are encountered, and then the lofty Unaka or Great Smoky chain, which separates North Carolina from Tennessee. These mountains belong to the Azoic and Metamorphic systems. They were picturesquely and graphically called "a bed of mountains" by Professor Safford, of Tennessee. Placers beds are found among them all the way from the Unaka range to the lower levels many miles east of the crest of the Blue Ridge. In some of these considerable work has been done; in others none at all. That a great deal of gold has been taken from them is well known, but there is no record to show how much. In an old United States report I found a table giving the weights of exceptionally large nuggets found in North Carolina placers during a series of years. These were as follows: In 1799, one weighing 4 pounds; in 1803, one of 28 pounds; in 1804, four weighing respectively 2, 3, 7 and 9 pounds; in 1826, three weighing 8, 9½ and 16 pounds, and in 1835, four weighing 4½, 5, 8 and 13½ pounds. Most of these finds were accidents, and not the results of careful prospecting. The 28-pound nugget was picked out of a brook in Mecklenburg county by a country boy, who took "the pretty yellow stone" home to show his father. The latter used it several years as a weight to prevent the wind from swinging his cabin door. Eventually he carried it to town and sold it to a jeweler for \$3.50. It proved to be a mass of virgin gold. The writer has no doubt but that scientific work in the placer beds would furnish many more nuggets of small and large size and an immense quantity of gold in other well-known forms.

A great amount of gold has also been taken from deep mines. The writer describes one which he went into during the war, which yielded complex ores of lead, zinc, iron, copper, silver and gold. Here he found two veins that converged as they descended until, at the depth of 400 feet, they met and became a single vein of from 15 to 20 feet thick "across the course and across the line of dip." This remarkable body of ore was found in a Metamorphic region, traversed by numerous dykes of gneiss, quartzite, hornblende and other slates.

The MANUFACTURERS' RECORD cannot spare space for other extracts from this valuable manuscript. Mr. Atkinson has shown that there is a great gold field in the South that has never received due attention. Neither he nor any other friend of the South wishes to create there an unhealthy excitement or to awaken a spirit of wild speculation. But if the field is as broad and as rich as he intimates, then his treatise ought to stimulate legitimate enterprises and induce many capitalists to give it a thorough investigation.

It is proposed to hold a mineral exposition in Nashville in 1890. The idea is a most excellent one, and if properly carried out would undoubtedly accomplish great good for the South. A mineral exposition fully representing the whole mineral interests of the South, from the crude material to the finished product, would be such a revelation to the world that its influence would be far-reaching. It would be an exposition devoted to one industry alone in all its ramifications, and the expert, the capitalist, the manufacturer, the miner, and all others interested in that one subject, could there find just what they want to see. It would concentrate in one place such a display of the mineral resources and progress of the South as could never be secured in a general exposition. It is to be hoped that the people of Nashville will vigorously push this admirable project.

THE secretary's report of the Decatur Land, Improvement & Furnace Co., which appears in our advertising columns, makes a most excellent showing of the condition of that company. The history of Decatur's progress since the organization of this company has been wonderfully rapid and its future promises to be very bright indeed. The energy and enterprise which the managers of this company have displayed has justly been crowned with great success. We commend the report referred to to the attention of our readers.

THE organization of the Cotton Bagging Trust has naturally aroused great indignation in the South, and many suggestions have been made as to how to break its power, several correspondents of Southern papers suggesting that planters adopt a coarse cotton cloth or cotton duck for baling their cotton. It would certainly be a most desirable change if the great quantity of bagging annually needed could be made in the South out of cotton, instead of being manufactured in the North of foreign material.

THE railroads of South Carolina continue to show a steady increase in earnings, the aggregate earnings for June having been \$446,949.47 against \$398,515.87 in June, 1887, a gain of \$48,433.60, or nearly 11 per cent.



## Sanitary Precautions Needed.

Sanitation is an outgrowth and a necessity of civilization. Wherever human beings live together in large bodies there is certain in time to be epidemic disease unless the necessary precautions are taken to avert it. The wastage of life in its many forms cannot be transferred to the soil of large towns and cities without danger to their inhabitants. A friend of the MANUFACTURERS' RECORD had recently a conversation on this subject with Dr. A. N. Bell, a physician of high repute in New York, and the founder and editor-in-chief of the Sanitarian. Dr. Bell is cited in this country and in Europe as an eminent authority, and his monthly utterances on all questions relating to sanitation are quoted wherever civilization has spread. Said Dr. Bell: "I am looking with special interest to the South, for somewhere or somewheres there must be the places to which Northern physicians must send (as they are now doing) many of their patients every winter. I have great reason to fear that places which nature has made suitable for the alleviation and healing of diseases will be made unfit for use by their neglect to get rid of all those things which pollute the atmosphere. Take, for instance,—God made it a health resort. The air, the climate, the surroundings, are all adapted to the requirements of certain classes of patients. I should be glad to recommend it, but the people there take no precautions. Like everybody else they trust to nature, forgetting that they and their animals are vitiating the atmosphere and the water that God made pure and wholesome. Great cities quarantine against diseases from outside, and try to escape those originating in their midst by putting in force all the measures science has taught and experience has justified. In the South it is not so as a rule." We are reminded of this by reading a North Carolina paper, published in a large and fast growing city. The place is a popular winter resort for Northern travellers. It is a beautiful and ought to be a very healthy place. We have wondered why it was not. The paper gives one reason. It is infested with pig sties, whose nauseous odors float out upon the air. This is one of the common disagreeables of Southern towns that ought to be removed by municipal law. There are many others we need not name. Every Southern community should see that good drainage, freedom from all nuisances and a wholesome, life-inspiring atmosphere are maintained at whatever cost. The judicious expenditure of a little money, the faithful guard against the elements that breed disease, will save life and treasure and also enhance the reputation of the place. The MANUFACTURERS' RECORD has repeatedly urged these things upon the South, and will continue to do so until the necessity is removed. It costs little

to ward off preventable epidemic diseases, but if they are allowed to obtain a foothold in any community the sacrifice of life and treasure is always great. New Orleans and Memphis have learned this by sorry experiences. Let younger communities in the South profit by their examples and adopt thorough and far-reaching measures to insure themselves against "the pestilence that walketh in darkness."

## NOTES OF PROGRESS.

## What Alabama Is Doing.

BRANCH OFFICE MANUFACTURERS' RECORD,  
ANNISTON, ALA., August 6, 1888.

Everything is tending upwards throughout Alabama, and there are strong indications of a coming boom. Last week Bessemer led off with two new furnace companies, and now the many rumors about Sheffield which have lately caused so much activity in stock of the land company and real estate have culminated in the announcement of a sale of the entire property of the Sheffield Land, Iron & Coal Co. for \$1,750,000 or \$2,000,000. The purchasers are mainly Eastern capitalists. Of the price paid \$750,000 or \$1,000,000 is to be in cash. While the sale must be ratified by the stockholders, there is no likelihood of any hitch, as the largest stockholders have already approved it. In addition to the sum to be paid for the property, the purchasers agree to invest about \$1,000,000 in new enterprises. As the capital stock of the Sheffield Land Co. is \$1,000,000, this sale makes its stock net the holders \$170 a share. It is hard to exaggerate the effect of this great deal. It means a tremendous boom for Sheffield, but this is only a part of its effect. The result of this investment of about \$3,000,000 of Northern capital, added to the two new furnace companies organized at Bessemer, right in what is usually considered the dull season, will be to stimulate all North Alabama, and every town in this region will feel the benefits. These are, it is believed by those who have closely watched the course of events, but the first signs of another great boom which will take in all Alabama, and for that matter doubtless all of the mineral regions of the South. Everything is pointing that way.

The reports continue favorable as to the growing crops and in a few weeks the movement of cotton will be lively. "First bales" are now in order and nearly every town in the State is boasting of its first bale.

The furnaces to be built at Cartersville, Ga., by the Cartersville Steel & Iron Co. will, it is said, cost \$300,000. It is claimed that the Pratt process for dephosphorizing the ore and producing iron suitable for steel making, which is to be used in these furnaces, will revolutionize the steel industry. This process has never yet been tried on a large scale, but at Cartersville it will have the opportunity of demonstrating whether it is of practical value or not.

The Birmingham Chronicle makes the following statements regarding the Henderson steel process, about which very little has been heard of late: "The plant of the Henderson Steel Co. has been remodeled with a capacity of ten tons a day. The steel is on sale at Towers' hardware establishment, and is being sold at good prices. The steel is made at a cost of \$17 a ton, and sells for twice that sum. Many of the tools used in the car shops of the Elyton Land Co. are made of this steel, and it gives eminent satisfaction."

The general impression in the North is that the summers are intensely hot in the South. Of some parts of the South this may be true, but it is certainly not true of Anniston. Here the summer climate is far more pleasant than in the North. There is

scarcely an hour in the day when there is no breeze. Unlike the hot, sultry air of the North, this breeze is always cool and refreshing. The nights are almost invariably pleasant, and a blanket is very generally needed before morning. Anniston is wonderfully blessed in this respect. Its climate is dry and bracing, and in summer, as in winter, it is always delightful. This could easily be made a popular summer and winter resort.

There are rumors that the Shelby Iron Co. will build another charcoal furnace at Shelby, or reconstruct one of their furnaces now in operation there. Some months ago the writer was told by one who ought to know that the Clifton Iron Co., of this city, would also build another charcoal furnace—it now has two—but nothing has so far been made public. The Clifton and Woodstock companies have without doubt been the most successful iron companies in the South. Their profits have been immense. While much of their success is undoubtedly due to wise management, much is also due to the quantity, quality and low cost of their ore and fuel. Mr. E. C. Pechin, M. E., of Cleveland, Ohio, the iron expert whose recent letters to the Iron Trade Review on the iron interests of Alabama attracted so much attention, stated in his Anniston letter that the foundations of the engine-house of one of the Clifton furnaces, standing, as it does, at the foot of the ridge, are on solid ore, and that this ore does not cost over 60 cents a ton delivered to the furnace. As this ore analyzes 55% and over of metallic iron, and as the charcoal cost for fuel costs but 7 cents a bushel, Mr. Pechin was right in saying that "Northern iron master can calculate with a good deal of precision what it costs to make car-wheel iron in this favored spot."

There is some talk of basic steel works being built at Sheffield by Mr. James R. McLanahan, of Hollidaysburg, Pa.

THE Iron News, of Jefferson, Texas, has worked very vigorously for several years to attract attention to the iron ore deposits of that section, and has finally succeeded in interesting Western capitalists. An expert was sent to examine the ores and report on the feasibility of making iron at Jefferson. His report presents a strong showing in favor of the quantity and quality of the ore, and he estimates that the highest grade of charcoal iron could be made at a cost of \$12 a ton.

GADSDEN is rapidly becoming a railroad center. The Rome & Decatur Railroad has just been finished from Rome to Gadsden, and the Anniston & Cincinnati, which passes through Gadsden, striking the Queen & Crescent system at Atalla, five or six miles from Gadsden, has been opened for passenger travel. These new roads will prove of great value to that town, and will help to develop its trade and manufactures.

THE important gap between Atalla, Ala., and Rome, Ga., has been closed by the Rome & Decatur Railroad. The last rail was laid July 27, and the first train passed over July 28. Regular trains commence about August 10. This connects the Queen & Crescent line with the various systems of railroads converging at Rome. Col. Daniel Callahan built the road. Judge R. T. Dorsey is receiver; Col. P. H. Thomson is chief engineer, and R. A. Bacon, superintendent.

## Newsy Notes from Mississippi.

[Special correspondence MANUFACTURERS' RECORD.]  
ABERDEEN, MISS., August 4, 1888.

The authorities of Yazoo City closed a contract last week with the Thomson-Houston Electric Light Co. for ten arc street lights for the city, and expect to have them in service by October.

The Citizens' Electric Light Co. was organized in Natchez July 30th, with Louis Botto as president. The capital stock of \$25,000 was all taken, and the plant will be in place and operation within 60 days, under the Van Depoele system.

The Greenville (Morse) compress ceased work last week for the season of 1887-88 with a record of 44,500 bales of cotton.

The assessment of the property of the city of Greenville, in Washington county, for the current year amounts to about \$3,000,000.

The Catholic school building in Greenville will be completed and ready for use by October 1. It contains 19 rooms, and will be in charge of a sisterhood of that church.

The Delta Loan, Trust & Banking Co. was organized July 28th, and is to be domiciled at the city of Greenville. The authorized capital is \$500,000, but it may commence operations as soon as \$100,000 of the stock is taken.

The Illinois Central Railroad is now putting down a 2,240-foot side track at Osyka, in Pike county, to accommodate the large and constantly increasing shipments of produce and lumber from that "hustling" town.

Messrs. Budwill, McConnell & Co. have just completed a large planing mill, drying houses, etc., at Osyka, and this town probably ranks next to Crystal Springs as the most extensive shipping point for fruits and vegetables on the southern division of the Illinois Central road north of New Orleans.

In Meridian Messrs. Winner & Meyer are erecting a handsome block of buildings, 75x94 feet in area. The second story is to be a lofty and elegant public hall.

The Farmers' Alliance in Mississippi is said to have 1,156 local organizations and a membership of 45,000.

Numerous cottages are being erected in Columbus.

Dunn Bros., of Columbus, have the contract for the construction of all of the bridges on the Georgia Pacific Railroad between Columbus and West Point, amounting to about \$175,000 worth of work.

The Vicksburg Street Car Company is making extensive extensions of tracks and has received a number of new cars.

The Yazoo & Tallahatchie Rivers Transportation Co. was organized July 20th, with a capital stock of \$50,000, with the leading river men of Vicksburg and the Yazoo delta as incorporators.

Mr. R. A. Walker, of Yazoo county, has one of the most extensive aparies in the State. In July he made large shipments of honey to Cincinnati.

The projected Memphis & Pensacola road proposes, in the event that enterprise in Clarke county will vote it a liberal subscription in bonds, to erect furnaces and develop the rich iron deposits in that vicinity.

Mrs. Nancy Culpepper, of Starkeville, died last week at the remarkable age of 105 years. Up to the date of her last illness she was a strong and active woman and able to read without glasses.

Dr. R. W. Jones, president of the State Industrial Institute and College for Girls, at Columbus, has resigned to accept the presidency of Emory and Henry College, Virginia. His loss will be greatly deplored by our people, but the change is to the

financial advantage of Dr. Jones, and one he could not afford to decline.

The machinery for Blanchard's new ship ways at Scranton, on our south coast, was received last week and will be put in place at once.

The shipments of lumber by sea from the port of Pascagoula for the week ending August 2 were as follows:

	Feet.
To Vera Cruz, Mexico.....	91,723
" Fecamp.....	378,735
" Belfast, Ireland.....	772,106
" New York.....	380,000
Total.....	1,622,564

The extensive car and machine shops of the Illinois Central Railroad at McComb City, in Pike county, employ about 350 operatives and mechanics. All kinds and classes of work are executed there, and the two largest switch engines that are employed in the company's yards at Chicago were built recently in the McComb City shops. Among other constructions now going on in those shops are 75 coal cars 35 feet in length, with freight capacity of 30 tons each. The grand forests sur-

### No. 40 Geared Press.

The accompanying engraving illustrates a new single action press of great strength, specially designed for heavy cutting and forming operations in sheet steel, iron and brass, for embossing sheet brass, German silver, &c., and for watch-case work. The frame is made of a single casting, with a space of 16 inches between the upright, a section of which at the smallest part measures 13x6 inches. The bed is 13 inches thick, and may be cast solid for embossing work, or have an opening cored to allow blanks to drop through. The forged steel shaft has journal bearings 6 inches diameter by 9 inches long, and the crank for operating pitman is 8 inches diameter by 10 inches long, occupying the total width between journal bearings. The large spur wheel which drives the main shaft is 60 inches diameter by 6 inches width of face, runs continuously and is connected at will with the shaft by means of a very powerful clutching device, for which patents are

The press is built by the well-known manufacturers of sheet metal working machinery, E. W. Bliss Co., of Brooklyn, N. Y., whose reputation in the trade is a sufficient guarantee that the material and workmanship in its construction are both of the best. Any further information required may be obtained from the manufacturers.

### Improvements in Rope Hoisting Machinery.

The accompanying illustrations show the improvements made in the rope hoisting machines made by the Energy Manufacturing Co., Philadelphia, Pa.

Fig. 1 is the style of machines made to lift 1,000 and 2,000 pounds. The hoist to lift 500 pounds is the same in general ap-

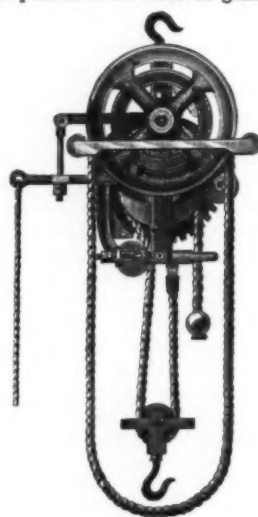


FIG. 1.

pearance, with the exception of having only a single load rope, doing away with the movable block. Fig. 2 shows the manner in which the load rope is kept from slipping. Referring to the cut, E is a lug (part of the frame) on which the yoke H is pivoted; L is a stud (one on each side of the yoke) fastened into the frame; A and B are rollers which have their bearings on the yoke; D is the bottom of the frame, and also guide for the load rope; J is a small weight fastened to the end of the rope so that it cannot be pulled off; it is to keep the rope from kinking and untwisting. If a load is put on the hook K the rope will push the yoke in the direc-

tion of the arrow P, causing the roller A to bind the rope slightly into the wheel I. The jamb nuts C prevent the yoke from pushing any further than is required to bind the rope when no load is on. The rope is not bound, which allows the machine to work easily.

Among the improvements recently made has been the enlarging of the ropes. The

hand ropes are made endless by joining together with couplings, which prevents the rope kinking should it get wet. The brakes are now made to hold a load at any point when raising or lowering. The speed of lowering is regulated by the pull on brake cord.

Fig 3 shows the manner in which the brakes are constructed; 3 is a lever placed

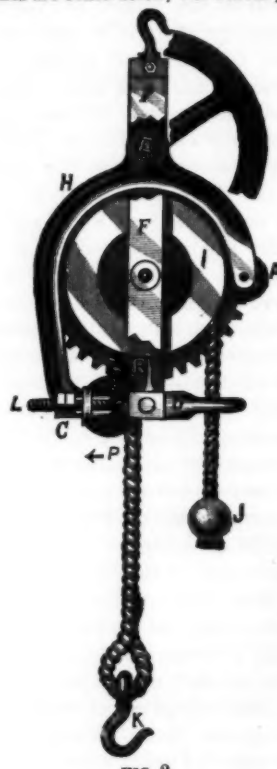


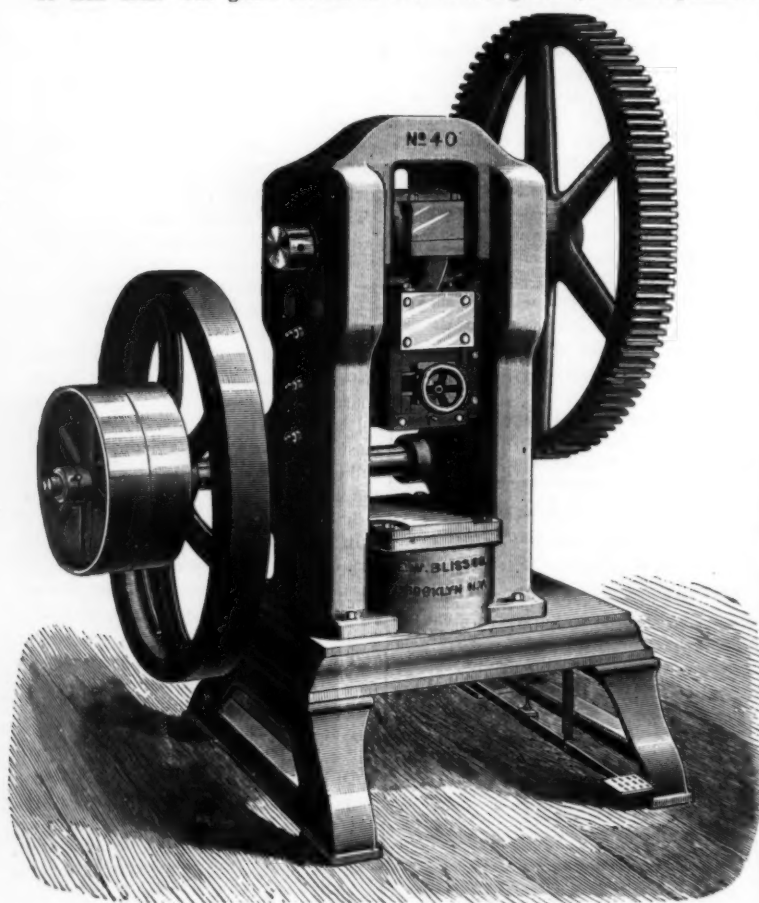
FIG. 2.

on the eccentric 5, and 4 is a shoe attached to the lever. No. 2 is a ring secured to the hand rope wheel I. It will be seen if the hand rope wheel is pulled in the direction of the arrow U, that the brake will rise and allow the load to be hoisted; but as soon as the hand rope is let go, the wheel will run in the direction of the arrow D, and the brake will expand in the rim 2, preventing the lowering of the load. The brake 9, used in lowering, is connected by the rod 6 to the eccentric brake; 9 is brake lever, and 8 the shoe. If the brake cord 12 is pulled upon it releases the eccentric brake and at the same time brings the shoe 8 against the outside of the ring; by regulating the pull on the brake cord, the load is lowered at any speed. Among the advantages claimed are that



FIG. 3.

The load rope when worn out can be replaced at a small cost, and there is comparatively nothing to wear out. The hook can be pulled up or down by hand instead of the slow process of pulling on hand rope. The hoist can be used for long or short lifts.



NO. 40 GEARED PRESS

rounding these shops supply an abundance of the finest material for all characters of wood work in car construction, including the lovely "olive wood" finish for passenger cars, which is supplied by the gigantic magnolias so common in the forests of South Mississippi, frequently affording solid logs from two to four feet in diameter.

The Illinois Central Railroad is about to establish a first-class eating-house in its new depot at Jackson. It erected a fine railroad hotel at Holly Springs last year.

The State of Mississippi is rejoicing in splendid crops of all kinds. She will make an enormous surplus of corn, and hundreds of thousands of her people will henceforth be independent of the West in regard to pork, as we are in regard to beef, mutton and dairy products.

ADVERTISERS wishing to reach the manufacturers of all classes, mining companies, steel, iron and hardware dealers of the entire South, cannot find a better medium than the MANUFACTURERS' RECORD

now pending, and which is controlled by a treadle. The mandrel or slide is made in two parts, the main portion being 18 inches in length and fitted to slide in adjustable V-shaped gibbs attached to inside of press frame. The upper portion of this mandrel is planed out to receive that part connected with the pitman, which is an oblong box-shaped piece, held in place by a cap on main part of mandrel, yet allowed to move vertically for purpose of adjustment. The two parts of mandrel have a solid connecting device, which allows an adjustment of seven sixteenths of an inch in height of same, and the whole makes a practically solid mass of metal from the shaft to lower end of mandrel. Tight and loose driving pulleys, 24 inches diameter by 6 inches face, and a balance wheel, 58 inches diameter by 5 inches face, weighing 1,300 lbs., are mounted on one end of the back shaft, which is 3 1/2 inches in diameter. A webbed pinion on opposite end of back shaft drives the large spur gear, the proportion of gearing being 7 1/2 to 1. The press frame is mounted on a heavy iron table, and the total weight of machine complete is 10,000 lbs.



### Metallic Gaskets for General Packing Purposes.

In the accompanying cuts is shown a new idea in the manufacture of metallic gaskets, an improvement over the old leather and rubber article, which have been widely noticed and extensively adopted by steam users throughout the country.

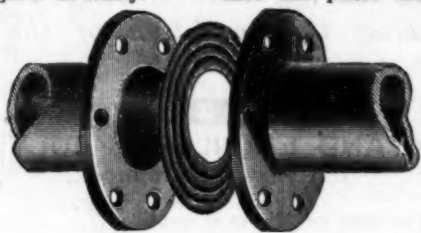


FIG. 1.

The illustrations show two different patterns of the metallic gasket, which consist of thin sheet copper stamped with concentric corrugations. Three to six corrugations answer as well as more, the space within the bolt holes determining the width of the gasket. Connections made by the use of this improved article are not so affected by heat and pressure as to blow

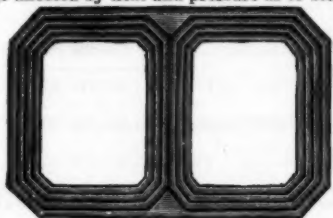


FIG. 2.

out after continued use, for each corrugation makes the entire circle of the flange, and so long as the contact is kept complete by compression the joint cannot leak. This style of gasket, the manufacturers claim, is not impaired by the repeated expansion and contraction of steam pipes, and is, therefore, of much service on pipes

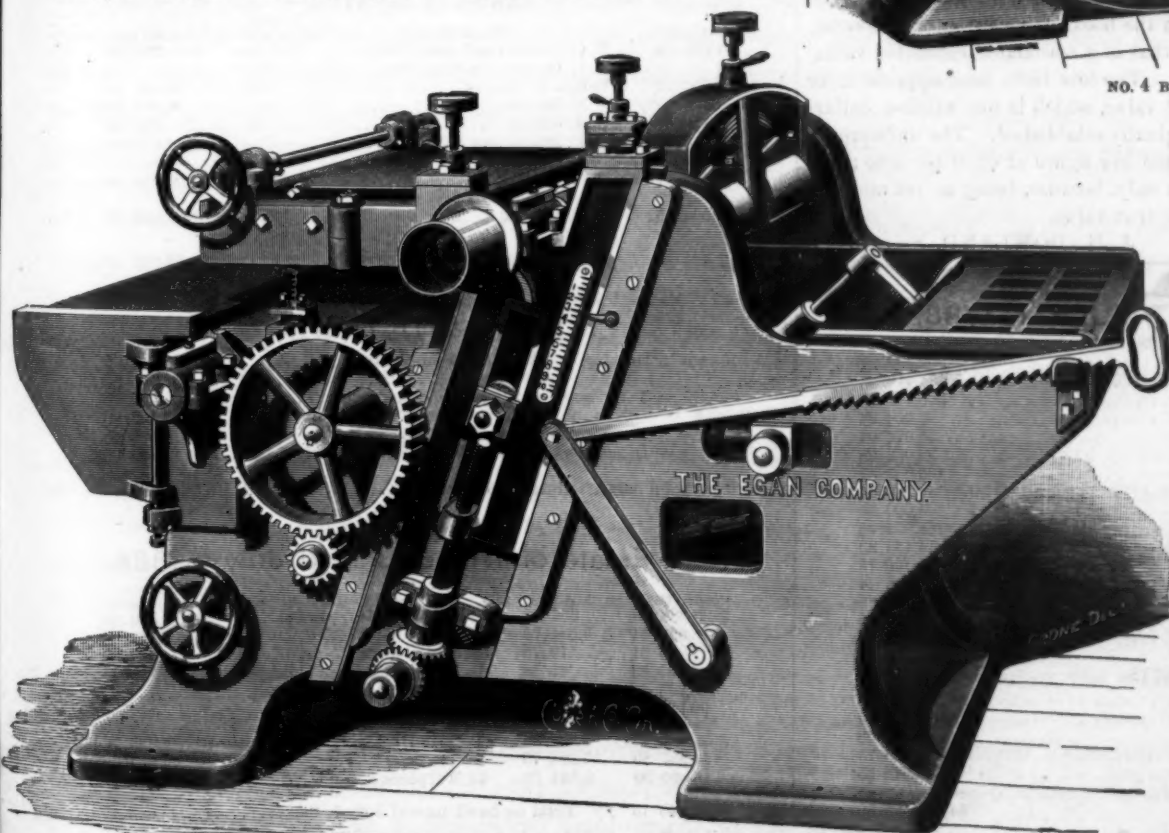
the public in oval, rectangular and irregular shapes for steam chests and cylinders of engines and pumps. Their line embraces lip union, flange union, plain and ball joint gaskets for pipes carrying water, steam, air and gas.

A few of those who have used and are much pleased are the Metropolitan Steamship Co., New York; Edge Moore Iron Co., Wilmington, Del.; Southern Cotton Oil Co., Memphis; Calumet & Hecla Mining Co., Michigan; Des Moines Electric Light Co., Iowa; Jacob Ruppert Brewing Co., New York city, and the Germania Brewing Co., Philadelphia. The manufacturers will cheerfully furnish circulars and other information upon application to the United States Mineral Wool Co., No. 2 Cortlandt street, New York.

### No. 6 Double Cylinder Endless Bed Surfacers.

We illustrate herewith a new double cylinder Farrar or endless bed surfacers, specially designed for mills requiring a double surfacers of large capacity.

The frame is cast solid and cored, being



NO. 6 DOUBLE CYLINDER ENDLESS BED SURFACER.

in which steam is used alternately on and off. It is also claimed to be practically indestructible, and can be used to advantage for the general uses of packing in all positions where rubber and other destructible

well braced on the inside with ribs, making a very substantial framing.

The upper cylinder is double belted, and is raised and lowered from the working end of the machine. It has lips of the

very best cast steel made in such a manner that the knives hug them very closely and firmly.

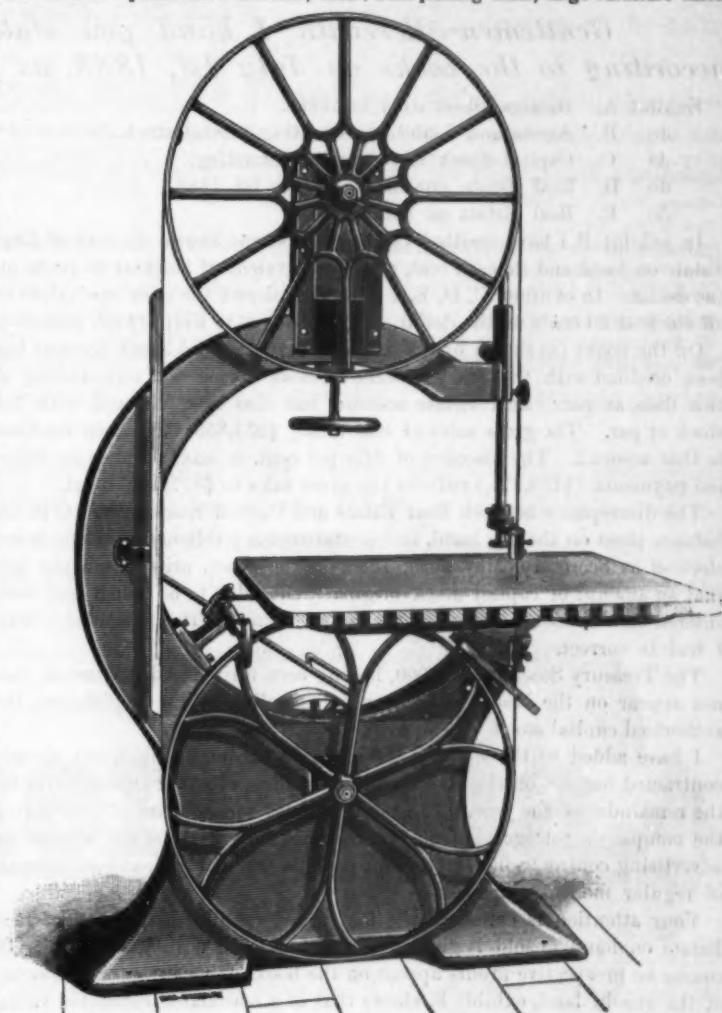
The slides in which the head raises and lowers are gibbed and any wear can be easily taken up.

The bed is composed of slats put together in a superior manner. The slats are made of special hard material, each

ment. Two boards of different thickness can be fed through the machine at the same time.

Two sizes of this machine are built, one to plane 36 inches wide and 10 inches thick, and the other to plane 30 inches wide and 10 inches thick.

They are recommended for use in first-class planing mills, large furniture facto-



NO. 4 BAND SAW.

ries, car and railway shops, etc., where a machine of large capacity is required to surface either one or both sides.

For further information address the manufacturers, the Egan Co., 238 to 248 West Front street, Cincinnati, Ohio.

### No. 4 Band Saw.

This machine is designed for all ordinary classes of work; it is heavy and well made; the frame or column is cast in one piece and stiff enough to guarantee the perfect alignment of all the parts.

The wheels are of iron, 36 inches in diameter, and have rubber tires to give them elasticity and increased cohesion with the saw.

The wheel shafts run in self oiling boxes hung on pivots, and by means of hand-screws are easily tilted to change the track of the saw blade; the tension of the saw is regulated by the upper wheel, which is hung in a gibbed frame, and is quickly adjusted by means of the large hand-wheel. The guides are of improved design, and the upper one adjusts to 13 inches above the table, and is provided with a compensating balance weight hung inside the column. The table is of wood, glued up in narrow strips to prevent warping, and has an adjustment for bevel sawing.

Each machine is supplied with brazing vice and tongs, and one 1/4 inch French saw blade. The manufacturers are C. B. Rogers & Co., Norwich, Conn.

Subscribe to the MANUFACTURERS' RECORD. Price \$4.00 a year, or six months for \$2.00.

# SECRETARY'S REPORT

To the Directors and Stockholders of the Decatur Land, Improvement & Furnace Co.

New Decatur, Alabama, July 10, 1888.

Gentlemen—Herewith I hand you statements showing the condition of the Company according to the books on July 1st, 1888, as follows:

- Exhibit A. Balance Sheet July 1st, 1888.  
do B. Assets and Liabilities, omitting capital stock.  
do C. Capital Stock issued and outstanding.  
do D. Real Estate purchases to July 1st, 1888.  
do E. Real Estate on hand unsold.

In exhibit B I have omitted Capital Stock, and shown the cost of Real Estate on hand and its cash cost, or the equivalent of stock at 20 cents on the dollar. In exhibits C, D, E, I have also shown the cash equivalent of all stock at 20 cents on the dollar. This was done to simplify the accounts.

On the books (as shown by the balance sheet,) Capital Stock account has been credited with the exact amount of stock issued and outstanding at this date, at par. Real Estate account has also been charged with the stock at par. The gross sales of real estate, \$953,850, have been credited to that account. The discount of fifty per cent. on stock paid in on deferred payments, (\$153,575,) reduces the gross sales to \$877,062.50 net.

The discrepancy between Real Estate and Capital Stock accounts in my balance sheet on the one hand, and in statements published previous to my election as Secretary, May 26th, 1888, on the other, arises from the fact that an amount of capital stock originally intended to be issued had been entered on the books, instead of the actual issues as they occurred. This I had to correct.

The Treasury Stock, \$2,500,000, having been retired and not issued, does not appear on the books. As soon as cancelled by the Legislature, the authorized capital stock will be reduced to five millions.

I have added to the floating liabilities in exhibit B, liabilities already contracted but not on the books, and an estimate of other expenditures for the remainder of the year. The total includes bonuses, cost of completing the company's cottages, balance on contract for the Furnace, balance on advertising contracts, interest on bills payable not matured, and an estimate of regular monthly expenses.

Your attention is called to the fact that in exhibit B the asset of Real Estate on hand unsold is given at the actual cash cost, \$590,045.15. Of course no prospective profits appear on the books. An inventory, however, of the unsold land, exhibit E, shows that at a reasonable estimated valuation it would amount to \$3,745,645.42. The lots have been appraised, for safety, at their lowest present market value, which is one million dollars less than the Company's prices as originally established. The unimproved Decatur land has been appraised at the low figure of \$250 per acre; and the mineral and timber lands at cost only, because, being as yet undeveloped, no estimate can be made of their true value.

Respectfully submitted, J. H. DOWLAND, Secretary.

## A BALANCE SHEET JULY 1, 1888.

DEBITS.	
Real Estate Account.....	\$3,302,388 97
Improvements.....	84,410 53
Buildings.....	336,442 15
Materials on hand.....	7,064 24
Switches and Sidings.....	18,972 04
Personal Property.....	34,936 88
Notes Receivable.....	463,831 81
Accounts Collectable.....	49,710 04
Stock Investments.....	4,000 00
Capital Stock paid in for lots.....	153,575 00
W. W. Littlejohn, treasurer, (bank balance).....	14,435 83
Petty Cash (cash on hand).....	130 15
Expense Accounts.....	181,600 44
Bonuses.....	63,115 89
Projected Enterprises.....	13,927 09
Real Estate Donations.....	11,047 23
<b>CREDITS.</b>	<b>\$4,689,588 89</b>
Capital Stock.....	\$4,585,950 00
Notes Payable.....	71,931 01
Accounts Payable.....	20,359 78
Rentals.....	5,699 75
Interest.....	25,648 35
	<b>\$4,689,588 89</b>

## B ASSETS AND LIABILITIES JULY 1, 1888. OMITTING CAPITAL STOCK.

ASSETS.	
Real Estate on hand unsold (cost in cash).....	\$ 590,045 15
Buildings.....	336,442 15
Materials.....	7,064 24
Switches and Sidings.....	18,972 04
Personal Property.....	34,936 88
Notes Receivable.....	463,831 81
Accounts Collectable.....	49,710 04
Stock Investments.....	4,000 00
Cash on hand.....	14,565 98
<b>Total on books.....</b>	<b>\$1,519,568 29</b>
LIABILITIES.	
Notes Payable.....	\$ 71,931 01
Accounts Payable.....	20,359 78
<b>Total on books.....</b>	<b>\$ 92,290 79</b>
Liabilities contracted and estimated for the balance of the year, not on books.....	170,429 20
	<b>262,719 99</b>
<b>Excess of Assets over Liabilities, excluding stock.....</b>	<b>\$1,256,848 30</b>

## C Capital Stock Issued and Outstanding July 1, 1888.

No. Shares.	ISSUED TO WHOM.	Par Value.	Cash Value at 20 cts.
10,713 1/2	E. C. Gordon and associates.....	\$1,071,375 00	\$214,275 00
529	E. C. Gordon, balance due.....	32,900 00	10,530 00
500	Echols & Skeggs.....	50,000 00	10,000 00
90	T. J. Owens.....	9,000 00	1,800 00
1,122 1/2	E. C. Gordon.....	112,225 00	22,445 00
32,704 1/2	Cash subscribers.....	3,270,450 00	654,090 00
		<b>\$4,585,950 00</b>	<b>\$913,190 00</b>

## D Real Estate Purchases to July 1, 1888.

LANDS IN DECATUR.	
Acres.	FROM WHOM.
4,999.36	E. C. Gordon and associates.....
529	E. C. Gordon, balance due.....
304.75	Echols & Skeggs.....
2.00	C. C. Sheets.....
140.00	T. J. Owens.....
5.00	R. F. Mayes (see below).....
5,451.11	
	<b>11,832 1/2</b>
LANDS IN TENNESSEE.	
17,994.75	E. C. Gordon.....
	<b>1,122 1/2</b>
LANDS IN MURPHREE'S VALLEY, ALA.	
2,344.70	C. G. Brown & Co. (1/2 interest).....
LANDS IN DECATUR.	
	R. F. Mayes, balance due him paid in lots.....
	<b>3,125 00</b>

## RECAPITULATION.

Lands in Decatur—11,832 1/2 shares stock, equal to.....	\$236,655 00
" " cash payments.....	320,400 00
" Tennessee—1,122 1/2 shares stock, equal to.....	22,445 00
" " cash payments.....	22,492 80
" Murphree's Valley—cash payments.....	16,020 00
" Decatur—Value of lots transferred to Mayes.....	3,125 00
<b>Total (stock reduced to cash value).....</b>	<b>\$621,138 70</b>

## E Real Estate on Hand Unsold July 1, 1888.

Cost in Cash.	Acres.	LOCATION.	Estimated Present Value.
\$ 38,988 55	256.85	In New Decatur, platted.....	\$2,632,500 00
378,698 34	3,684.75	" " not platted.....	921,187 50
2,029 61	19.75	Lots in Decatur.....	76,940 00
4,059 22	39.50	In New Decatur, in sidings.....	4,059 22
15,225 40	100.50	" " in parks.....	
90,090 33	593.50	" " in streets.....	
\$529,086 45	4,694.85	<b>Total in Decatur and N. Decatur.....</b>	<b>\$3,684,686 72</b>
44,937 80	17,994.75	In Tennessee.....	44,937 80
16,020 90	2,344.70	In Murphree's Valley, Ala. (1/2 int).....	16,020 90
<b>\$590,045 15</b>		<b>Total on hand unsold July 1, 1888.....</b>	<b>\$3,745,645 42</b>

## Report of the Auditing Committee to the Stockholders of the Decatur Land, Improvement & Furnace Co.

We, the auditing committee appointed by the stockholders of the Decatur Land, Improvement & Furnace Company at their last annual meeting, beg leave to submit the following report: We have examined the books accounts, vouchers, stock books and contracts of the Company to June 1st, 1888, and find them correct according to the books and the statements herewith submitted. We have also examined the books, accounts and vouchers of the treasurer to July 1st, 1888, and find them correct.

Respectfully submitted, J. J. BARCLAY, H. A. SKEGGS, J. R. BOYD. Committee.

DECATUR, ALABAMA, JULY 10, 1888.



## A RETROSPECT.

**T**HE past year or two have witnessed a wonderful upheaval in the ways, customs and activities of the people of a goodly portion of the State of Alabama. It has chronicled a progress that a decade before had not shown. It was not the discovery of a new truth, nor the development of a new fact, but a sudden and impressive realization of the utility and value of truths and facts known for years.

The mineral section of Alabama (the north central portion) before the civil war was fairly well settled, and had attractions of climate in an even and healthful temperature and a pure, invigorating atmosphere; of fertile valleys and hills adapted to cotton, grain, fruits and pasturage, and an abundant and well-distributed water supply that made its inhabitants contented, happy and prosperous.

The great civil war was a revolution in more senses than that historically attributed to it. It brought out elements that changed destinies. Many years seemed to be absorbed in the process, but the leaven of facts was working, and the development was sudden and startling. In this section the two great factors in the world's industrial economy—coal and iron, which had virtually been the basis of England's great wealth and power, and of Pennsylvania's marvellous prosperity—were found in equal quantity and quality, and surprisingly more available for economic working and reduction. The remarkable development in progress in this section is the result of the impressive realization of these facts.

This development seems rapid, and yet is slow. With natural resources equal, if not greater, than those of Pennsylvania and natural advantages far superior, even at the rate of progress of the past few months, it will be decades before we can approximate to her standard. As in Pennsylvania, so here are certain points where a combination of advantages will center the greater industrial developments; where coal is most abundant and available for working and handling; the ores rich and inexhaustible; limestone abundant; a most eligible site with attractive surroundings; an ample water supply; a fertile contiguous territory; abundant and competitive transportation facilities, and a central location. Such a point is

# Bessemer, Ala.

Within a mile of its furnaces the ore is mined and the limestone found in exhaustible beds. Within nine miles, in eight-foot seams, the best of coking coal,—the ore and coal both *mined and delivered at less than one dollar per ton*. Situated in one of the most charming and picturesque sections of the South, on a broad plateau in the famous Jones Valley, twelve miles from Birmingham, midway between Chattanooga and Meridian, Mobile and Nashville, Savannah and Memphis, New Orleans and Louisville, with railroads radiating to each,—seven lines already completed and three others surveyed, two of them under construction.

On the 12th of April, 1887, the first lot was offered and sold in Bessemer. Within a year's time an actual investment or outlay in improvements of over *two million* dollars has been made within its limits, and a population of 3,500 people has located there. Magnificent plants of iron furnaces, iron and steel rolling mills, foundry and machine shops, screw works, planing and drying mills and wood-working factory, fire-brick works, building-brick works, etc., have been erected. Choice business blocks costing from twenty-five thousand to one hundred and twenty-five thousand dollars have been constructed, and nearly four hundred buildings have been completed or are near completion.

Yet Bessemer has not been advertised, for it has grown fully as rapidly as stability of growth and prosperous development would warrant, and it has to its credit a rapidity of growth and development unrivalled in this country.

Bessemer is destined to be a large milling and manufacturing center and prosperous city, for its coal and iron fields are inexhaustible, and its transportation facilities are unexcelled in the South; for nearly all the various manufacturing industries and kinds of business enterprises it affords advantages that cannot be rivalled in this country.

The facts of Bessemer court the most rigid investigation. Facts, not expectations, are suggested to enlist interest and attract attention. In all that may be published under our name concerning Bessemer, the reality and correctness of the statements can be relied upon.

The Bessemer Land and Improvement Co., upon whose property Bessemer is largely built, will promptly furnish information as asked for, and offer substantial inducements in the way of *Sites, Subscriptions, Stock or Loans*, to all industrial enterprises giving remunerative employment to the people.

## Bessemer Land and Improvement Company,

WM. BERNEY, President. H. M. McNUTT, Secretary.

# ALABAMA'S GREAT MINERAL WEALTH

SURROUNDS THE

## ★ CITY OF TALLADEGA, ★

Which, according to statistics, is the **MOST HEALTHFUL CITY IN ALABAMA**, and the County Seat of Talladega County.

THE CITY HAS A POPULATION OF 5,000, AND ITS POPULATION IS RAPIDLY INCREASING.

**T**ALLADEGA is on the main line of the E. T. V. & G. Railroad, the A. & A. Railroad, and is the present terminus of the T. & C. Railroad. Work is rapidly progressing on the Birmingham & Savannah Air Line Road, between Birmingham and Savannah, and within twelve months this road will be completed via Talladega from Birmingham to Savannah, which will place Talladega on the direct line from Birmingham to deep water on the Atlantic, making

### TALLADEGA ONE OF THE BEST DISTRIBUTING POINTS IN THE STATE.

THE CITY HAS

### AN EXCELLENT SYSTEM OF COMMON GRADED SCHOOLS,

With a scholastic population of 500, and *THE MOST COMMODIOUS AND ATTRACTIVE PUBLIC SCHOOL BUILDING IN THE STATE*. The main building is a three-story brick, slate roof structure, well ventilated, heated by steam; has accommodations and seating capacity for 500 pupils. This school is owned and sustained by the city. All branches of English literature, foreign languages, music, the sciences and art, are taught for a nominal tuition. Among other educational institutions are the following:

SYNODICAL FEMALE INSTITUTE, Property valued at \$50,000.

D. D. & B. INSTITUTE, Property valued at \$150,000.

BLIND INSTITUTE, (in course of construction,) property valued at \$150,000.

FOSTER COLLEGE, property valued at \$150,000.

No other city in Alabama has so many educational institutions and so many public buildings.


### ← TALLADEGA HAS THE MOST COMPLETE SYSTEM OF WATER WORKS IN THE STATE. →

The stand pipe has a capacity of 175,000 gallons, and into this reservoir a supply of fresh, clear, pure water is pumped every day from a large spring located in the heart of the city, which discharges over 2,000,000 gallons per day. The gravity pressure from this system is 90 pounds to the square inch in the business portion of the city. The city has broad streets, well macadamized and shaded with beautiful trees, and is well lighted with a *SUPERIOR QUALITY OF GAS*. Sixty fire plugs and forty gas lamps protect against fire and illuminate the streets.

**A LARGE FURNACE PLANT** gives employment to thousands of hands, and makes a high grade of chilled car-wheel iron from ores, limestone and coal within ten minutes haul by rail, or an hour's haul by wagon. **FOUR LARGE LUMBER MILLS**, with an aggregate daily capacity of 200,000 feet of lumber, cut from the long-leaved yellow Pine of this country. **FOUR BRICK YARDS** are in active operation. A SASH, DOOR and BLIND FACTORY, a FOUNDRY, MACHINE SHOP, FLOUR MILL, COTTON-SEED OIL MILL, and various other industries are in successful operation, and the TALLADEGA ICE CO. cools the thrifty population with pure ice at 50 cents per hundred. Another large furnace plant will be completed within the next ten months. A Spoke and Handle Factory and many other industries are projected, with a view to early completion.

Taxable property has increased 100 per cent, within the past twelve months. The rate of taxation is limited in the city charter to half of one per cent., and the city offers an exemption from taxation to all manufacturing enterprises for a period of ten years. The county of Talladega supplies more crude material, in the way of minerals and timber, than any other county in the State. Almost within the corporate limits of the city are extensive deposits of the highest grades of limonite ores, yielding 50 to 58 per cent. metallic iron, with only a trace of phosphorus, and limestone abounds in the greatest abundance. Coal is within twenty miles by rail.

**THE TALLADEGA LAND & IMPROVEMENT CO.** owns 5,000 lots suitable for residences, business and manufacturing, in and adjacent to the city. Lots are donated to manufacturing enterprises, and liberal inducements offered to actual settlers. **SPRING LAKE PARK** is owned by this company, and it is being made the most attractive resort in the State. The lake covers an area of seven acres, and is a beautiful sheet of clear spring water. Parties seeking a healthy climate, free from malaria and epidemics, and a prosperous city, are invited to visit Talladega. Address for maps, etc.

**The Talladega Land & Improvement Co.,**  **Talladega, Ala.**



# SHEFFIELD, Colbert County, Ala.

## The Iron Manufacturing Center of the South.

**B**EING at the head of navigation, and on the south bank of the Tennessee river, Sheffield is the natural outlet for the mineral and manufacturing products of Alabama and neighboring States seeking a water route to points on the Ohio and Mississippi rivers, and to the Gulf of Mexico, as well as the best distributing point over Alabama, Eastern Mississippi and East Tennessee, South Carolina, Georgia and Florida for Northern and Western produce, groceries, provisions, machinery, &c. Four railroads certain, and several others assured. Principal shops of Memphis & Charleston Railroad will be erected here pursuant to written contract. These will employ between four hundred and five hundred mechanics, and consequently, with their families, will make an increase in population of at least two thousand people. Shops of three other railroads are contracted to be located here.

### Five Blast Furnaces Now Under Construction,

Of which one is finished, and the remaining four contracted to completion the present summer, have estimated capacity of 700 tons pig iron per day. This is 40 per cent. more than now manufactured at Birmingham, Alabama. Experts do not hesitate to say that iron can be manufactured more cheaply at Sheffield than at Birmingham, and its river transportation facilities will enable Sheffield iron to reach the principal markets at a saving of from

**\$2.00 TO \$2.50 PER TON.**

A first-class daily newspaper is regularly issued. Furniture Factory, Bottling Works, Bakery, Dummy Street Railroad, a 90-inch Morse Cotton Compress, Electric Lights, Agricultural Implement Works, 3 Steam Brick Works, 2 Hand Brick Works, 2 Steam Wood-Working Establishments, Water Works, 2 Banks, a Savings Bank, and Steam Job Printing Office already in successful operation, and Iron Pipe Works, 15-ton Ice Machine and five-story hotel, with all modern appliances, will be erected. The Cleveland Hotel, Park House and numerous boarding houses furnish accommodations to travelers. Postoffice, Telegraph Office and Express Office already established. Paint Works and Stove Works now under construction. Other manufacturing establishments under consideration, and will probably be built shortly.

Good Water. Free Public Schools and Churches. Health and Climate Unsurpassed.

*Drainage excellent. Splendid opening for men of push and energy. No "Old Foggy" element here.*

*No better point for profitable investment.*

## «Sites for Manufacturing Enterprises,» And for Free Public Schools and Churches

Donated by Sheffield Land, Iron & Coal Company.

Population January 1st, 1887, 700; August 21st, 1887, by actual count, 2,583. Increase of population, 300 per cent. in eight months, and only limited by accommodations.

Three years ago the site of Sheffield was cultivated as corn and cotton plantations, and was without a railroad. Numerous two and three-story brick business houses, and one and two-story dwellings have been, and are being erected. The class of buildings will compare favorably with those in cities of 20,000 inhabitants.

**LIMESTONE** of excellent quality for fluxing iron in unlimited quantities at the furnaces' sites. First-class building stone and brick clay abundant. Rich and extensive deposits of brown hematite iron ore within twenty miles, along the lines of two Sheffield railroads. The Sheffield & Birmingham Railroad runs through the heart of the Warrior Coal Fields, which abound in first-class coking, steam, gas and grate coal. Timber is abundant and cheap.

The Memphis & Charleston Railroad and the Sheffield & Birmingham Railroad are now in operation into Sheffield. The Louisville & Nashville Railroad Co. is now extending its Nashville, Florence and Sheffield division, which will be completed to Sheffield before July 1st, 1888. Surveys of three other railroads have been recently completed to Sheffield, which will soon be the best combined river and railroad transportation center in the South.

Every merchant and every established manufacturing enterprise is doing a profitable business. More are needed. For further information address

**WM. L. CHAMBERS, Vice-Prest. and Manager**

**Sheffield Land, Iron & Coal Co., - Sheffield, Ala.**

# "ANNISTON"

*A Romance of the New South."*

**Hon. Wm. D. Kelley,**

THE GREAT PENNSYLVANIA STATESMAN,

After many weeks of careful investigation of the resources and advantages of the iron section of Alabama, lately wrote an exceedingly interesting article entitled "Anniston A Romance of the New South." In this article he gave an enthusiastic description of the growth of Anniston, widely known as "The Model City of the South," and of its wonderful development and marvellous mineral wealth. Judge Kelley declares that Anniston is an

**"IDEAL INDUSTRIAL CENTER,"**

And says that "It is in many respects the most remarkable center of the iron industry in the Southern States."

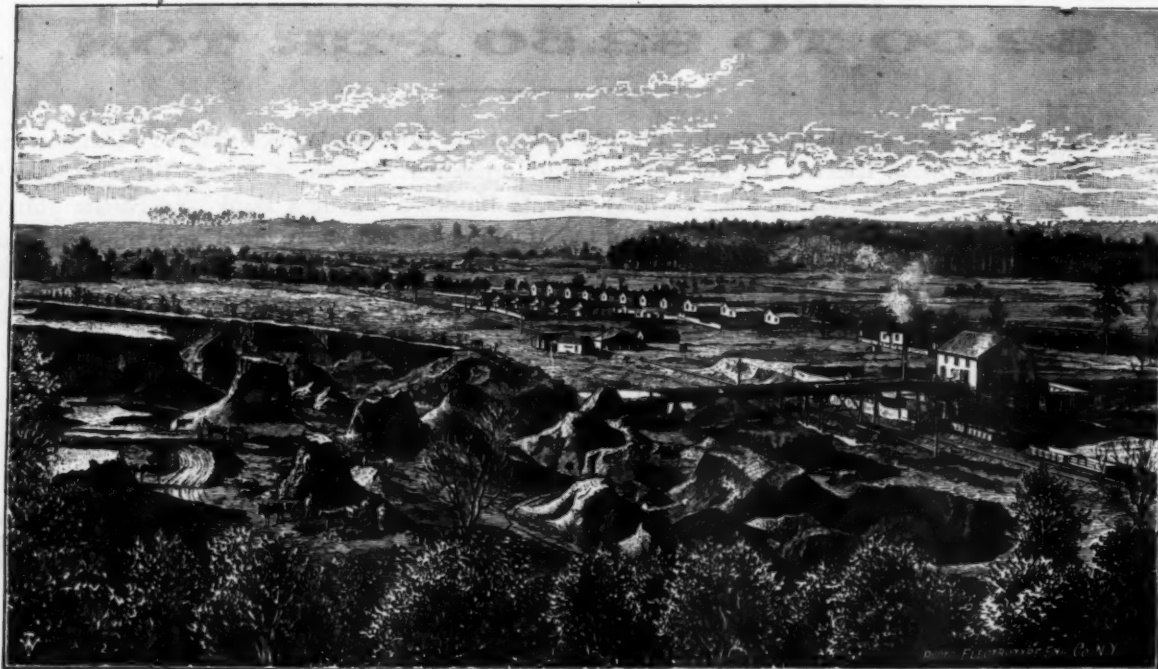
Anniston is beautifully located in the Alabama Mountains. It is surrounded by the *Most Marvellous Mineral Resources of the South, by Vast Forests of Virgin Timber and by a Magnificent Farming Country.* There are twelve Furnaces in the "Anniston Iron District," (two of them making the celebrated "Woodstock Iron," being within

## • THE ENTERPRISES •

Now under construction, and for the building and running of which every dollar has been raised, will require over 4,000 workmen in addition to those now here. The population, now 12,000, will be about 25,000 by the end of 1898. Great inducements offered to manufacturers to locate here.

—OVER 100,000 ACRES—

Of the Finest Iron Ore, Timber and Coal Lands in Alabama, including the great Cahaba Coal and Iron Property of 40,000 acres of the best Coking Coals in the South, are owned by Anniston capitalists, and are being developed in the interest of this town. These Lands, the New Furnaces, Pipe Works, Railroads to develop these properties, &c., HAVE ALL BEEN PAID FOR IN CASH, THERE BEING NO DEBTS OR BONDS TO ENCUMBER THESE GREAT ENTERPRISES.



IRON ORE BANKS OF THE WOODSTOCK FURNACE CO.—ANNISTON.

the city limits, and two more, to make Coke Iron, being under construction.) Anniston now has Three Banks, the Best Schools in the State, Fine Churches, Opera House, one of the Largest Cotton Mills in Alabama, Immense Car Wheel and Car Axle Works, Car Works, Rolling Mill, Machine Shops and Foundries, a large Steel Blooming, the only one in the South, a 90-inch Morse Cotton Compress, immense Fire Brick Works, costing \$100,000, Planing Mills, Water Works, Electric Light Works, two Ice Factories, &c., and is now building two Coke Furnaces, to turn out 100,000 tons of iron a year; Iron Pipe Works, the largest in the world, to employ 900 hands and consume 900 tons of pig iron a day; a \$60,000 Agricultural Implement Factory, \$300,000 Horse-shoe Works, a \$30,000 Union Depot, &c.

THE UNITED STATES ROLLING STOCK COMPANY, OF NEW YORK, having a capital of \$4,000,000, are now building at Anniston

## GIGANTIC CAR WORKS,

Including Rolling Mill, Foundry, Machine Shops, &c., to cost \$1,000,000, to employ 1,000 Skilled Mechanics, and to turn out 25 complete Cars a day, including freight, passenger, sleeping and parlor cars, everything, from making the wheels to the upholstering, to be done in these works. This is the most important industrial enterprise ever established in the South by Northern capital.

Manufacturers, Merchants and others desiring to locate in the best city in the South, where a solid and substantial growth is assured, are invited to visit Anniston or to write for pamphlets, &c., to the

There are

## SPLENDID OPENINGS HERE

for many industries, large and small, such as Cotton and Woolen Mills, Foundries and Machine Shops, Chain Works, Agricultural Implement Factories, Nail Mills, Wood-Working Establishments of all kinds, Brick and Tile Works, Flour and Corn Mill, &c., &c. Wholesale Dry Goods, Grocery and Hardware Houses are needed, and a large trade could be secured at once.

Contractors and Builders will find splendid opportunities for profitable investments in building dwellings, stores, &c. At least 2,000 new houses will be needed this year to accommodate the people to be brought here to operate the new enterprises under way, and others.

## • ANNISTON'S CLIMATE •

*Is Unsurpassed for Weak Lungs and Throats.* It is dry and bracing, delightfully sunny and warm in winter, and cool, with never-falling breezes in summer. Its location in the mountains makes its summer climate a great attraction, and Northern people will find it cooler and more pleasant here than in their own homes. Here are found Pure Air, Good Water, a Salubrious Climate, Absolute Freedom from Malaria, Well-Paved Streets and the Finest Hotel in the State, costing \$200,000.

**Anniston City Land Co.,**

**Anniston, Alabama.**



# CONSTRUCTION DEPARTMENT

**WE PUBLISH, every week, a list of every new factory, of whatever kind, projected anywhere in the South; every railroad undertaken, and every mining company organized. This information is always fresh, and, by enabling manufacturers to correspond with the projectors of such enterprises before their supplies of machinery have been purchased, is of great value. Manufacturers will find it to their interest to read this department carefully each week.**

## ALABAMA.

**Anniston—Stables.**—The Anniston Street Railway Co. have let the contract for building their stables, previously mentioned, to H. H. Badders.

**Anniston—Houses.**—J. H. Neily has contracted to build 5 houses for J. C. Keith to cost about \$1,000 each.

**Anniston—Buildings.**—T. B. Hefner has been awarded the contract to erect the block of buildings for D. T. Constantine lately mentioned.

**Ball Play—Saw Mill and Tram Road.**—Work has been commenced on a large saw mill by Anniston and New York parties, who will also build a tram road.

**Bessemer—Electric Light Plant.**—The Bessemer Electric Light & Power Co., previously reported, have let the contract for erecting the building for their plant to Thomas V. Huffman.

**Bessemer—Machine Works.**—Negotiations are now pending for the establishment of the machine works reported last week as probably to be started to contract to furnish machinery, &c., for the new iron furnaces to be built at Bessemer.

**Bessemer—Stove Works.**—Negotiations are pending for the establishment of stove works.

**Bessemer—Street Railroad.**—The Bessemer Dummy Line Co. will extend their line on several streets soon.

**Birmingham—Coal Mining, &c.**—The Mary Lee Coal & Railway Co., reported last week as chartered, will open mines as soon as possible with a daily output of 1,500 tons. They will manufacture coke, and will build a railroad to existing roads and to Birmingham. Their capital stock is \$500,000.

**Birmingham—Iron Furnace.**—The Pioneer Mining & Manufacturing Co. have, it is reported, decided to increase their capital stock to \$1,500,000.

**Birmingham—Ore Crusher.**—The Birmingham Mining & Manufacturing Co. have purchased a large ore crusher for their mines at Gate City.

**Birmingham—The City Flour & Feed Co.**, capital stock \$5,000, has been chartered by B. F. Whilden and others.

**Birmingham—Switch Works.**—The Hart-Wood Switch Co., capital stock \$100,000, has been organized to manufacture railroad switches, frogs, &c., with J. A. Montgomery as president; J. T. Hart, secretary, and W. G. Montgomery, treasurer. They will erect works.

**Birmingham—Hotel.**—The East Lake Land Co. have built the foundation for the new hotel at East Lake previously reported as to be erected.

**Birmingham—Railroad.**—The Alabama Great Southern Railroad Co. (office, Cincinnati, O.) will issue bonds to build extensions and branch roads.

**Blocton—Coal Mining.**—The Cahaba Coal Mining Co. have increased their daily output of coal to about 3,000 tons, previously

reported, and will still further increase the capacity of their mines.

**Blocton—Railroad.**—It is rumored that a railroad from Blocton to Helena, on the Louisville & Nashville Railroad, is being considered.

**Bluffton—Iron Mining.**—The Bluffton Iron Ore Co., capital stock \$100,000, has been organized with L. Rossiter, of Tallapoosa, Ga., as president and general manager; S. F. Smith, Hampden Corner, Me., vice-president; F. L. Weir, secretary, and J. C. Kibbey, Tallapoosa, treasurer. They will commence mining iron ore at once.

**Centre—Grist Mill, &c.**—J. K. Neyman contemplates increasing the capacity of his grist mill and erecting a cotton press.

**Cordova—Mining.**—Mines are reported to be developed soon.

**Chewacla—Railroad.**—The Chewacla Lime Works are building a railroad from Chewacla to their works,  $3\frac{1}{2}$  miles, and will, it is also stated, extend it to Marvin.

**Decatur—Horse-shoe Nail Factory.**—It is stated that the Southern Horse Nail Co. will at once begin work on their nail factory previously mentioned.

**Decatur—Gas Works.**—St. Louis (Mo.) parties have, it is said, contracted to build gas works and will begin work within 30 days.

**Decatur—Trunk Factory.**—Mr. Giles, of New York State, has been prospecting with a view to starting a trunk factory.

**Decatur—Distillery.**—It is reported that parties are negotiating to move a distillery from Des Moines, Iowa, to Decatur.

**Faunsdale—Railroad.**—The Chicago & Gulf Railroad Co., C. C. Merrick, president, have, it is said, secured the right of way for the entire line of their road, and have let the contract for 30 miles of road south from Faunsdale.

**Florence—Town.**—It is stated that parties have purchased land 15 miles north of Florence with a view to starting a town.

**Florence—Houses.**—The Florence Building Association, lately reported as organized to build 50 houses, have let the contract for 8 houses. W. M. Campbell is president.

**Girard (P. O., Columbus, Ga.)—Trunk Factory.**—A trunk factory has been started.

**Huntsville—Buildings.**—Proposals for erecting a courthouse, excepting heating apparatus, for the U. S. government will be received until August 29 by Will A. Freret, Washington, D. C.

**Jacksonville—Street Railroad.**—There is talk of a street railroad being built.

**Jasper—Sash, Door and Blind Factory.**—It is reported that parties have signed contract to build the sash, door and blind factory previously mentioned.

**Mobile—Water Works.**—The Mobile Water Works Co. will, it is reported, improve their works.

**Mobile—Building.**—Proposals for erecting a brick store building will be received until August 15 by J. Pollock & Co.

**Mobile—Transportation.**—The Merchants' Independent Packet Co. is being organized by George E. Elliott and others.

**Montgomery—Buildings.**—The Louisville & Nashville Railroad Co., reported last week as purchasing property with a view to increasing their terminal facilities, will shortly erect buildings.

**Pratt Mines—Prison.**—The Tennessee Coal, Iron & Railroad Co. have nearly completed the prison previously reported. They will build another prison at slope No. 2 to cost about \$18,000.

**Sheffield.**—Eastern parties have made a proposition to purchase the entire properties

of the Sheffield & Birmingham Coal, Iron & Railroad Co., which has been accepted by the directors, subject to ratification by the stockholders of the company. It is stated that the purchasers propose to spend about \$1,000,000 in improvements.

**Sheffield—Machine Shops.**—The Nashville & Florence Railroad Co. (office, Columbia, Tenn.) will, it is reported, soon build machine shops, previously reported.

**Sheffield—Depot.**—The Sheffield & Birmingham Coal, Iron & Railroad Co., the Memphis & Charleston Railroad Co. (office, Memphis, Tenn.) and the Nashville & Florence Railroad Co. (office, Columbia, Tenn.) have arranged for building the union depot previously reported. Work is to be commenced soon.

**Sheffield—Steel Plant.**—It is rumored that James K. McLanahan, of Hollidaysburg, Pa., is arranging to build a basic steel plant.

**Shelby Iron Works.**—Iron Furnace.—It is reported that the Shelby Iron Co. are preparing to either build another iron furnace or remodel one of their present (2) furnaces.

**Stockton—Lumber Mill.**—The Stockton Lumber Co. will put in new boiler and add some machinery to their mill.

**Sylacauga—Hotel.**—Efforts are being made to have the hotel previously reported and the depot built together as one building. The cost will be \$10,000.

**Wedowee—Railroad.**—E. P. Alexander, of Savannah, Ga., president Central Railroad & Banking Co., states that the East Alabama Railroad will shortly be extended to Wedowee, 20 miles.

## ARKANSAS.

**Arkansas—Saw Mill.**—J. B. Shoefelt, of Esteline, Dak., is looking for timber lands with a view to building a saw mill.

**Arkansas City—Logging.**—David Furr, of Metropolis, Ill., has contracted to furnish the Desha Lumber & Planting Co. with timber and will commence work at once.

**Arkansas City—Hotel.**—The Kentucky & Arkansas Land & Industrial Co., lately mentioned as erecting a cotton compress and to build a hotel, cottages, &c., will soon begin work on the hotel.

**Bear—Smelting Plant.**—It is reported that the Central Continental Gold & Silver Mining Co. are preparing to erect a smelting plant of large capacity.

**Bear—Mining.**—Capt. Cutter and Samuel Slawson are sinking shafts in mineral lands for the Eureka Mining Co.

**Conway—School.**—A school building to cost \$10,000 will probably be erected. The mayor can give information.

**El Paso—Buildings.**—W. H. Myer, of Camden, Ark., has plans prepared to erect a block of three-story brick buildings.

**Fort Smith—Cold Storage.**—The Border City Ice Co. have erected a room at their factory for cold storage.

**Hot Springs—Hotel.**—N. Cohn speaks of erecting a large building to be used as a hotel.

**Huntington—Coal Mine.**—The Kansas & Texas Coal Co. will spend about \$30,000 in opening the coal mine lately reported and in erecting machinery.

**Independence County—Iron Mining.**—The Blair Manganese Co. will soon commence mining manganese iron ore.

**Lester—Fire-brick, Tile and Pipe Works.**—The Osachita Coal & Railway Co., previously mentioned as to start tile works, will also manufacture fire-brick and sewer pipe. They want information as to machinery.

**Little Rock—Ice Factory.**—The Little Rock Ice Co. has been formed to build a 30-ton ice factory.

**Little Rock—Turnpike Road.**—W. F. Hill is receiving bids for building a turnpike road.

**Marianna—Planing Mill and Sash, Door and Blind Factory.**—Frank Trankey, of Chicago, Ill., lately reported as moving his factory to Marianna, will about October 1 commence work on a two-story building, 60x100 feet, to be used as a planing mill and sash, door and blind factory. All machinery has been shipped.

**Marianna—Lumber Mill.**—The L'An-guille Lumber Co. will reconstruct their lumber mill and put in new machinery.

**Paragould—Railroad.**—The Buffalo Island & Paragould Railroad Co. have increased their capital stock. Contracts for building their road as far as the St. Francis river have been let.

**Rogers—Flour Mill.**—Z. T. Mitchell will erect a 30-barrel roller flour mill and has ordered machinery.

**Yellville—Mining.**—The Yellville Mining Co. has been organized. William Cowdrey is superintendent.

## FLORIDA.

**Crescent City—Hotel.**—It is reported that a company is being formed to build a hotel.

**Eureka—Saw Mill.**—H. C. Martin has lately moved his saw mill to Eureka.

**Juniper—Hotel.**—A hotel is being built by Charles Carlin.

**Kissimmee—Sugar Refinery.**—The Florida Sugar Manufacturing Co., previously mentioned as purchasing machinery to greatly enlarge their factory, have let the contract for new buildings to L. A. Lyman, of Sanford.

**Lake Weir—Railroad.**—The South Florida Railroad Co. (office, Sanford) will, it is stated, build a branch to Lake Weir.

**Leesburg—Jelly and Canning Factory.**—A jelly and canning factory is reported as being erected.

**Melbourne—Hotel.**—A hotel is reported to be built. C. E. Graves can probably give information if correct.

**Melbourne—Tram Road.**—It is reported that another tram road will probably be built in addition to the one reported last week.

**Old Town—Saw Mill.**—R. W. Ferguson contemplates building a saw mill.

**Sanford—Gas Works.**—The Sanford Gas Co. will put about \$10,000 of new machinery in their gas works.

**Starke—Saw and Planing Mill, &c.**—G. P. Young and T. A. Knight, reported last week as to build a lumber mill, will, it is stated, build a saw and planing mill, grist mill, cotton gin, &c.

## GEORGIA.

**Athens—Electric Light Plant.**—The Athens Gas Light Co., previously mentioned as contemplating adding an electric light plant to their gas works, will probably put in the plant this coming fall.

**Atlanta—Piano Factory.**—The Cooper Piano Manufacturing Co., previously reported, have put the engine and boiler in their factory, and will soon put in the wood-working machinery.

**Atlanta—Buildings.**—Proposals in triplicate for erecting on the military reservation near Atlanta 2 double barracks, 2 double sets of officers' quarters and one set hospital stewards' quarters, will be received until August 31 by J. W. Jacobs.

**Augusta—PaCrusta Factory, &c.**—The Southern PaCrusta Decorative Co., capital stock \$100,000, has been chartered to manufacture articles for decorating walls and manufacture wood pulp, &c. James U. Jackson will be president.



**Brunswick—Hotel.**—It is reported that New York, Boston and Philadelphia parties contemplate building a large hotel on Cumberland Island. They will, it is also stated, build a railroad, &c.

**Calhoun—Ginnery.**—T. W. Harbin has greatly enlarged his cotton ginnery, putting in new machinery.

**Calhoun—Courthouse.**—Proposals for building a new courthouse will be received until October by J. M. Harlan. W. H. Parkins, Atlanta, is architect.

**Canton—Brick-yard.**—Dr. Turk has, it is stated, started the manufacture of brick.

**Carrollton—Railroad.**—It is stated that the Chattanooga, Carrollton & Rome Railroad Co. will soon begin building their road to Columbus. It is rumored that the road will be extended to Montgomery, Ala.

**Cartersville—Gas Works.**—The Cartersville Improvement, Gas & Water Co., lately reported as chartered by Hiram Blaisdell, of Newton, Mass., and others, will build gas works first. They have contracted to light the city.

**Cartersville—Hotel.**—It is rumored that parties contemplate building a hotel to cost \$75,000.

**Cartersville—Iron Furnaces.**—The parties reported last week as contracting to build the 50-ton iron furnace and the 20-ton ferro-manganese furnace, at which the Pratt process for dephosphorizing will be applied, are organized as the Cartersville Steel & Furnace Co. Plans, specifications, &c., have been prepared, and it is stated that the company will receive bids.

**Cedartown—Hotel.**—It is contemplated to build a 40-room hotel.

**Cedartown—Street Railroad.**—There are prospects of a new street railroad being built.

**Cedartown—Iron Furnace.**—The Cherokee Iron Co. are repairing their (coke) iron furnace, and will blow it in about September 1.

**Columbus—Sprinkling Machinery.**—The Clegg Manufacturing Co. will put automatic sprinkling machinery in their cotton factory. The contract has been let to the Georgia Steam & Gas Pipe Co.

**Columbus—Houses.**—The Muscogee Real Estate Co. are preparing to build about 10 or 12 houses to cost from \$1,000 to \$1,500 each, and a large number of houses to cost from \$500 to \$1,000 each.

**Dawson—Oil Mill.**—The Dawson Oil Co., previously reported as preparing to enlarge their cotton-seed oil mill, are now making the improvements.

**Dublin—Sash and Blind Factory.**—A stock company is being formed to erect a sash and blind factory.

**Fort Valley—Railroad.**—The Atlanta & Florida Railroad Co. will probably soon commence building their road south from Fort Valley either to Brunswick, Ga., or Jacksonville, Fla.

**Gainesville—Publishing.**—The Herald Publishing Co., capital stock \$5,000, has been chartered by W. W. Stovall, J. W. Smith and others.

**Graysville—Gin.**—A gin will be erected by the Graysville Mining & Manufacturing Co.

**Greenville—Railroad.**—The Columbus & Rome Railroad (office, Columbus) will be extended to Newton, 20 miles, within a year.

**Griffin—Railroad.**—The Covington & Macon Railroad Co. will, it is stated, build a branch road from near Monticello to Griffin. E. C. Machen, of Macon, can give particulars if correct.

**Jewell's—Cotton Mill.**—Bowen, Jewell & Co. are putting new machinery in their Jewell Cotton Mills.

**Jug Tavern—Corn and Flour Mill.**—Kelly, Crosby & Co. contemplate erecting a corn and flour mill.

**La Grange—Electric Lights.**—The La Grange Oil Mill & Manufacturing Co., lately reported as to enlarge their ginnery, will put electric light machinery in their oil mill and fertilizer factory.

**Lost Mountain—Saw Mill.**—John A. Dobbins has started a saw mill.

**Macon—Cotton Mill.**—The Bibb Manufacturing Co. will re-arrange the (power) machinery in their yarn mill.

**Macon—Plumbing and Machine Shop.**—A. Reynolds & Son will add some machinery to their plumbing and machine shop.

**Macon—School.**—The contract to erect the building for the Lewis High School, previously reported, has been let to W. E. Hamilton. The cost will be probably \$12,000.

**Marietta—Marble Mill.**—The American Marble Co. contemplate soon building an additional marble mill as large as their present mill.

**Monticello—Railroad.**—The Covington & Macon Railroad Co. will extend their road from Monticello to Covington. Part of the roadbed has been graded.

**Pulaski—Grist Mill and Gin.**—J. E. Booth will erect a grist mill and gin. Bids for erecting mill and gin and for furnishing machinery will be received until August 15.

**Rome—Natural Gas.**—A company is reported to be formed to prospect for natural gas.

**Rome—Coal.**—Coal has been discovered about 20 miles from Rome, and is being opened up by the U. S. geological surveying corps.

**Rome—Iron Works.**—Messrs. Nevigold and Hill, of Bristol, Pa., are prospecting with a view to starting iron works.

**Stockbridge—Furniture and Implement Factory.**—The Stockbridge Manufacturing Co. are erecting the factory for manufacturing furniture, agricultural implements, &c., reported last week. The capital stock is \$3,000. W. E. Arnold is president.

**Toccoa—Planing Mill.**—A planing mill has lately been erected by T. S. Davis.

**Tallapoosa—Wagon Factory.**—H. D. Hutcheson & Sons are building a wagon factory. The main building is 40x120 feet. Machinery is reported as purchased.

**Thomasville—Machine Shop.**—William Campbell is starting the machine shop lately mentioned.

#### KENTUCKY.

**Bowling Green—Cider and Vinegar Factory.**—Alexander & Nuhan have started the manufacture of champagne cider and vinegar.

**Bowling Green—Railroad.**—The project of building the Bowling Green, Hartford & Ohio River Railroad, chartered in 1869, is being revived, and the company will probably soon be organized. The road is projected from Bowling Green to Evansville, Ind.

**Clay City.**—The Kentucky Union Land Co. has been formed, and will succeed the Red River Lumber Co.

**Covington—Factory.**—The Glassene Manufacturing Co., capital stock \$15,000, has been chartered by A. G. Roulstone, W. W. Hunter and Charles S. Furber.

**Frankfort—Flour Mill.**—Miles & Son will add some machinery to their flour mill.

**Henderson—Bridge.**—The Ohio Valley Railroad Co., reported last week as making examinations with a view to building a bridge across the Ohio river at or near Henderson, intend to extend their road, as previously stated, to Evansville, Ind.

**Hopkinsville—Flour Mill.**—Roller machinery will be put in the flour mill of E. W. C. Edwards.

**Kensee—Coal Mining, &c.**—The Main Jellico Mountain Coal Co. (lately reported as to consolidate with several other coal mining companies), the East Tennessee

Coal Mining Co., the Jellico Coal & Coke Co. and the Proctor Coal & Mining Co. have consolidated as the United Jellico Coal & Iron Co., with a capital stock of \$6,000,000. The company have purchased and will own, in addition to the mines, &c., of the four companies, 100,000 acres of lands in Kentucky and Tennessee. The principal office of the company is to be at Louisville.

**Louisville—Warehouse.**—A large tobacco warehouse is reported to be built on Market street.

**Louisville—Flour and Feed Mill.**—A flour and feed mill will, it is reported, be erected by E. J. Mercke & Co.

**Louisville—Tinware Factory.**—Charles H. Irwin, of New Albany, Ind., will move his tinware factory to Louisville and increase the capacity. He will employ about 100 hands.

**Louisville—Dry Kiln.**—J. U. Struck & Bro. have erected a dry kiln at their planing mill.

**Louisville—Stove Works.**—Terstegge, Gohmann & Co. have recently built an addition to their works and put in some additional machinery.

**Louisville—Foundry.**—The Peerless Manufacturing Co. have, it is stated, lately increased the capacity of their works considerably.

**Mayfield—Flour Mill.**—It is reported that Wright, Reaves & Co. have put roller machinery in their flour mill with a daily capacity of 300 barrels.

**Mayfield—College.**—The Baptists are preparing to build a college.

**Oakland—Flour Mill.**—A flour mill of 75 barrels capacity daily is being built by Wilford & Bro. Machinery has been contracted for.

**Owensboro—Watch Factory.**—P. H. Wheeler is negotiating to establish a watch factory.

**Pineville—Saw Mill.**—John Mosely, of Lawrenceburg, has moved his saw mill to near Pineville.

**Shelbyville—Flour Mill.**—Logan & Logan will extensively improve their flour mill.

**Trenton—Flour Mill.**—The Model Roller Milling Co. will put roller machinery and wheat elevators in their flour mill.

**Tyrene—Bridge.**—The Louisville Southern Railroad Co. (office, Louisville) have let the contract for building their bridge over the Kentucky river.

**Uniontown—Flour Mill.**—A flour mill is being erected by the Rich Grain Distillery Co. The roller system will be used.

**Williamsburg—Spoke and Hub Factory.**—A site has been donated to parties who will build a spoke and hub factory.

**Winchester—Hotel.**—The Winchester Dining Co. are building an addition to their hotel.

#### LOUISIANA.

**Amite City—Canning Factory.**—\$5,000 have been subscribed toward starting a canning factory.

**Ascension Parish—Sugar Mill.**—Mrs. Von Ahlefeldt's plantation, on which a supplemental sugar mill was lately mentioned as to be erected, is in Ascension Parish. It is to be a two-roller mill, 44 inches in diameter and 72 inches long. A new engine will also be erected.

**Grand Isle—Hotel.**—P. F. Herwig, of New Orleans, La., will build a large new hotel. Plans, etc., are being prepared. He will sink an artesian well.

**Grand Isle—Railroad.**—John Kranst, of New Orleans, is reported as forming a stock company to build a railroad from Ewing station, on the Southern Pacific Railroad, to Grand Isle, about 46 miles.

**Iberville Parish—Sugar Mill.**—The plantation of James A. Ware, on which a supplemental sugar mill was lately reported as to be added, is in Iberville Parish. It will

be a two-roller mill, 40 inches in diameter and 63 inches long.

**Magnolia—Sugar Factory.**—J. J. Schaffer has, it is reported, made improvements to his sugar factory.

**New Iberia—Sugar Mill.**—James H. Laws & Co. have put a large vacuum pan in their sugar factory on the Cinclaire plantation.

**New Orleans—Hardware Factory, &c.**—H. Haller, Henry E. Haller, Paul Haller and John F. Muitken have chartered the H. Haller Manufacturing Co., capital stock \$50,000, to manufacture hardware, copper, tin and sheet iron ware, etc.

**New Orleans—Shirt Factory.**—The Crescent City Manufacturing Co., capital stock \$10,000, has been organized to manufacture shirts, cuffs, collars, etc. Their factory will soon be in operation. M. J. Farrell is president, and Leon Martiny, superintendent.

**New Orleans—Sugar Refinery.**—It is stated that Delgado & Co. and others have formed a company to build a sugar refinery.

**New Orleans—Factory.**—It is reported that the Bien Automatic Fan & Patent Co., capital stock \$50,000, has been organized with Henry W. Garder as president.

**New Orleans—Wood Factory.**—The machinery reported last week as to be erected by the Sampson Wood Manufacturing Co. will be for seasoning red gum and other woods to be used in manufacturing furniture.

**New Orleans—Furniture Factory.**—The Southern Furniture Manufacturing Co., lately mentioned as organized with a capital stock of \$250,000, expect to place \$30,000 of the finest machinery in their furniture factory. They solicit correspondence with manufacturers of machinery, hardware, etc.

**New Orleans—Stave and Barrel Factory.**—The Seaboard Manufacturing Co., of Mobile, Ala., will soon establish a large stave and barrel factory.

**New Orleans—Buildings.**—The contract to build the quarantine station on Chandelein Island has been awarded to J. H. Gardner at \$29,541. It is to be completed within 100 days.

**New Orleans—Steam Laundry.**—It is contemplated to erect a steam laundry at the Marine Hospital.

**New Orleans—Gymnasium.**—Work has been commenced on a new gymnasium at Washington and Prytanis streets. It will be two stories, 80x200 feet, and will cost about \$12,000.

**New Orleans—Gymnasium.**—The Orleans Athletic Association will erect a gymnasium.

**New Orleans—Sugar Factory.**—The Iberville Manufacturing & Sugar Refining Co., lately mentioned as chartered with a capital stock of \$500,000, and Adolph Meyer and others as directors, will probably operate the two plantations of Mr. Meyer in Iberville Parish and establish a central sugar factory.

**New Orleans—Wood-working Factory.**—The Orleans Manufacturing & Lumber Co., capital stock \$40,000, has been incorporated to manufacture all kind of wood-work, with Henry Wellman, Albert Baldwin, Thomas Sally and others as directors. Mr. Wellman is president.

**Plaquemine—Lumber and Shingle Mills.**—Several lumber and shingle mills will probably be erected soon.

**Plaquemine—Railroad.**—It is reported that the Texas Pacific Railroad Co. (office Dallas, Tex.) contemplate building a branch railroad from Plaquemine to a point on Bayou Plaquemine, about 9 miles, and have been making surveys.

**St. James Parish—Sugar Mill.**—R. S. Welham's Homestead plantation, on which a supplemental sugar mill was recently reported to be erected, is in St. James Parish. It will be a two-roller mill, 40 inches in diameter and 72 inches long.

**Shreveport—Ice Factory.**—It is reported that parties will purchase the old ice factory and organize a stock company to operate it.



Shreveport—Building.—N. Gregg and Mrs. Jose Ford will erect a two-story brick building to cost about \$8,500.

Tangipahoa—Saw and Planing Mill, etc.—Leatham & Smith, of Sturgeon Bay, Wis., previously reported as to build a saw mill, will erect a band and circular saw mill with a daily capacity of 80 M feet, a planing mill and build a railroad about 5 miles long. They want to buy a band saw mill, planing mill machinery, locomotive, cars, 35-pound rails, etc.

#### MARYLAND.

Baltimore—Electric Light Plant.—The Brush Electric Light Co. have recently put in an additional engine of 100 horse-power, and will soon put in several more engines of large capacity. They will, it is stated, soon erect a new plant with a capacity of from 4,000 to 5,000 horse-power. The building is reported to be three stories, 60x200 feet, with a smokestack 180 feet high.

Baltimore—Pumping Station.—The water department have purchased land at Broadway and Hoffman streets to be used as a site for a pumping station.

Baltimore—Houses.—Smith & Schwartz will erect 16 two-story buildings on Cannon street and 6 similar buildings on Lancaster street.

Baltimore—Cooperage Factory.—Zech Bros. will put in steam power machinery at their cooperage factory at Federal and Castle streets.

Baltimore—Church.—Faith Reformed Church will erect a new edifice on Gough street.

Baltimore—Engine House, Machine Shops, &c.—The additional building reported last week as to be erected at Gail & Ax's tobacco factory will be 65x122 feet and only two stories. It will be used as an engine and boiler-house, machine shop, &c.

Baltimore—Badge Factory.—Louis Nelke and others have chartered the Official Badge Co., capital stock \$2,400, to manufacture badges.

Brethedsville—Distillery.—George F. Gambrell has started a distillery.

Catonsville—Building.—A two-story addition, 36x85 feet, will be built to the Maryland Hospital for the Insane. \$15,000 has been appropriated for the work.

Cumberland—Soap Factory.—The name of the company previously mentioned as formed by District Assembly No. 25, K. of L., to start a soap factory is the Knights of Labor Co-operative Soap Manufacturing Co. The capital stock is \$50,000. They have bought a site and will erect a factory at once.

Darlington—Canning Factory.—C. A. Andrews is erecting a canning factory on the farm of W. Smith.

Darlington—Canning Factory.—E. C. Hopkins is putting about \$500 of new machinery in his canning factory.

Fair Play—Creamery.—The Willow Grove Creamery Co., capital stock \$5,000, has been chartered to start a creamery at Willow Grove Mills near Fair Play. John H. Snavely is president.

Halpine—Stone Quarry.—Henry Dwyer, of Rockville, has leased a stone quarry and contemplates forming a stock company to develop it.

Havre de Grace—Flint Mill.—S. J. & Clay Whiteford will erect a flint mill, 40x100 feet, on Broad creek.

Rockville—Gold Lands.—Kirk & Clarke have optioned lands supposed to contain gold.

Savage—Church.—Work has been commenced on a church for the Methodists. The cost will be about \$6,000.

Simpsonville—Flour Mill.—George C. Zeigler contemplates putting new machinery (buhr) in his (buhr) flour mill, and wants to purchase such machinery; also hominy and buckwheat machinery.

Washington, D. C.—Warehouse.—Leon E. Dessey will erect a two-story brick warehouse, 40x72 feet, on C street. It will cost \$10,000.

Washington, D. C.—Engine-house.—Proposals for building the engine-house lately mentioned will be received until August 14 by the District Commissioners. It is to be two stories, 32½x73 feet, with a tower 40 feet high.

Washington, D. C.—Hall.—Work on the music hall at Ninth and D streets, previously reported, will soon be commenced. Appleton & Clarke are the architects.

Washington, D. C.—School.—The District Commissioners will erect a 9-room school building at Fourteenth and Q streets.

Washington, D. C.—Buildings.—George F. Harbin will erect two brick buildings on Sixth street to \$5,500; F. R. Windsor, three buildings on A street, N. E., to cost \$7,800; the Capital Investment Co., five houses on Tenth street, S. E., to cost \$12,000; Washington Improvement Co., five houses on Maryland avenue, N. E., to cost \$15,000; H. T. & M. McGowan, a brick building at 1704 Pennsylvania avenue, N. W., to cost \$5,500; W. A. Coulton, six frame dwellings on Sixth street extended to cost \$10,000; C. C. Meade, three dwellings on South Carolina avenue to cost \$7,500; R. Goldschmid, a \$10,000 store building at 1017 F street; F. D. Chappelle, four dwellings on I street, N. E., to cost \$8,000, and J. A. Cooper, a livery stable to cost \$10,000.

#### MISSISSIPPI.

Belmont—Railroad.—J. S. McTighe & Co., of Memphis, Tenn., reported last week as receiving the contract to build the 20-mile branch of the Louisville, New Orleans & Texas Railroad from Belmont to Beulah, are advertising to sublet the work.

Corinth—Wool Carding Mill.—A wool carding mill has been started by L. M. New.

Durant—Cotton Compress and Warehouse.—The capital stock of a company to build the cotton compress and warehouse reported last week has been subscribed.

Grenada—Ice and Canning Factories, &c.—The Grenada Improvement Co., reported last week as being organized, will erect within a few months an ice factory, canning factory and a steam laundry. J. F. Hurley is interested.

Holly Springs—Fire-brick and Earthenware Works.—The Holly Springs Fire-brick & Earthenware Co. has been chartered to manufacture fire-brick and earthenware by J. G. Leach, Albert Hess, John E. Anderson, James T. Faut and E. Q. Withers. They are negotiating for the erection of buildings.

Natchez—Electric Lights.—Proposals for lighting the city with electric lights will shortly be advertised for. Bids will be received until November 1. Address the mayor.

Natchez—Electric Light Plant.—The capital stock of the Citizens' Electric Light Co., lately reported as organized, is \$25,000. They will put in a plant at once and will use the Van De Poole system. Louis Balto is president.

Osyka—Planing Mill, &c.—Budwill, McConnell & Co. have erected a planing mill and a dryhouse.

Summit—Bank.—S. Hyman will erect a two-story brick bank building.

West Point—Foundry and Machine Shop.—Norwood & Genway have started a foundry and machine shop.

Yazoo City—Electric Lights.—The Thomson-Houston Electric Light Co. have contracted to light the city.

#### NORTH CAROLINA.

Asheville—Building.—The Asheville Club have let the contract for erecting their clubhouse.

Asheville—Saw Mill.—The Southern Lumber Co. are moving their saw mill from Gadsden, Ala., to Asheville.

Durham—Warehouse.—It is stated that arrangements are being made to build a bonded tobacco warehouse.

Fayetteville—Fencing Factory.—N. H. Smith has erected new machinery for manufacturing wire fencing.

Fiat Rock—Canning Factory.—The Carolina Canning Co. will erect the canning factory previously reported and want to purchase machinery.

Gibsonville—Cotton Mill.—B. & J. A. Davidson will add 1,000 spindles for manufacturing cotton yarn to their woolen mill and want to purchase good second-hand machinery.

Lumber Bridge—Saw Mill.—M. L. Marley has started a lumber mill.

Millboro—Tramways.—Roger P. Atkinson is locating tramways which are to be used until the Millboro branch of the Cape Fear & Yadkin Valley Railroad is extended to Troy.

Raleigh—Town.—It is proposed to build a town at Asbury, 6 miles from Raleigh.

Salisbury—Gold Mine.—The capital stock of the Stanley Freehold Gold Mining Co. has been increased to £102,500.

Shannon—Saw Mill.—Mr. Lester has purchased the saw mill of N. A. McQueen.

Sylva—Saw and Planing Mill.—J. A. Jarrett & Bro. will build a band saw mill and a planing mill.

Wilmington—Sewerage System.—The mayor is making investigations as to the cost of a sewerage system for the city.

#### SOUTH CAROLINA.

Beaufort—Phosphate Mining.—The Beaufort Phosphate Co., previously reported as chartered to mine and manufacture phosphate, have commenced mining.

Charleston—Hall.—The contract to rebuild the Hibernian Hall has been let to George W. Egan at \$5,100.

Charleston—Bag, Broom and Woodenware Factory.—The name of the \$30,000 stock company previously reported as being formed to manufacture grain bags, flour sacks and paper bags is the Royal Bag Manufacturing Co. The company will also manufacture brooms and woodenware. Machinery will be purchased soon. George W. Wagener and James M. Seignious are interested.

Columbia—College.—The South Carolina Presbyterian Institute has been chartered and will build the college lately mentioned as to be erected by the Presbyterians at a cost of \$50,000.

Cowpens—Cotton Factory.—The Cowpens Manufacturing Co., lately mentioned as chartered to build a cotton factory, have organized with R. R. Brown as president and treasurer; J. T. Wilkins, vice-president, and C. B. Carr, secretary. They will build a mill to manufacture yarns and sheetings to cost, it is said, \$50,000.

Eutawville—Railroad.—The Eutawville Railroad Co. have contracted for 10 miles of steel rails to complete their road to Sumter.

Fingerville—Cotton Mill.—J. H. McMillan is reported as contemplating organizing a company next fall to build a cotton factory, if prospects are favorable.

Fort Lawn—Gin.—A new gin will be erected by Hough & Barnett.

Spartanburg—Water Works.—It is stated that the Spartanburg Water Works Co., reported as incorporated about a year ago to build water works, will soon commence work.

#### TENNESSEE.

Brownsville—Gin.—R. H. Haralson will add a gin to his saw mill.

Chattanooga—Buildings.—Martin Bros. will, it is stated, erect a large five-story building on Market street. It is to be of brick.

Chattanooga—Building.—Drew Watkins will, it is reported, erect a large four-story brick building.

Chattanooga—Hotel.—G. T. White will erect a three-story brick hotel, 40x140 feet.

Dover—Iron Furnace.—M. F. Scott, of Bloomington, Ill., previously mentioned as purchasing the Cumberland Iron Works property, including 48,000 acres of mineral lands, has put an old furnace (probably Dover furnace) in blast.

Dunlap—Brick-yard.—W. H. Mansfield will, it is rumored, start the manufacture of brick.

Dunlap—Saw Mill, Flour Mill, &c.—The Lathrop Manufacturing Co. will move their saw mill, flour mill, &c., from Owen to Dunlap about October 1.

Greeneville—Medicine Factory.—J. B. Spencer contemplates, it is said, starting the manufacture of medicines later in the year.

Greenfield—Saw Mill.—W. J. Keaton will add some machinery to his saw mill.

Knoxville—Soap Factory.—The Unaka Soap Works, reported last week as contemplating doubling their capacity later in the year, will at once increase their capacity from 1,800 to 2,700 boxes per week. They expect by the end of the year to have more than doubled their present capacity.

Knoxville—Electrical Railroad, &c.—There is talk of an electrical street railroad being built to Beaman's lake and a sanatorium at the lake.

Leasyear—Gin.—Meredith & Sprinkie will, it is reported, erect a cotton gin.

Memphis—Houses.—The Equitable Land & Construction Co. have built 2 houses, are building 5 and will build 3 more.

Nashville—Pottery.—C. C. Laitenberger and others have organized the Nashville Pottery Co. Works are now in operation.

Nashville—Iron Foundry.—The Waters Manufacturing Co., lately mentioned as chartered, will build an iron foundry.

Nashville—Saw Mill.—Prewitt Spurr & Co. contemplate, it is said, building a band saw mill.

Nashville—Tannery.—The Nashville Rapid Tanning & Belt Manufacturing Co., lately mentioned as formed, propose to erect a plant with a daily capacity of about 90 or 100 hides. D. C. Scales has been elected president; A. L. King, vice president, and John A. Warner, Jr., secretary and treasurer.

Newport—Flour Mill.—The new flour mill previously reported as to be built by Randolph & Son will be a roller process mill. It will cost about \$15,000.

Robertson County—Distilleries.—Five distilleries have been started.

South Pittsburg—Planing Mill, &c.—Mr. Payton, of Michigan, has been prospecting with a view to building a planing mill and a sash factory.

Spring City—Hotel &c.—Elias Rogers has purchased a site with a view to building a hotel next spring. He contemplates building an incline 300 feet long, and will use a turbine water wheel.

Strawberry Plains—Canning Factory.—The East Tennessee Canning Co. has been organized. Machinery for their factory has been ordered.

Tellico Plains—Saw Mill.—Mr. Hiser has lately erected a saw mill with a daily capacity of 10 M feet.

Winchester—Flour Mill.—W. Ransom has contracted for machinery to erect a 50-barrel roller flour mill.

#### TEXAS.

Arlington—Water Works.—The city council contemplate building water works.

Austin—Building.—John McDonald has been awarded the contract to build the addition to the State University, previously reported, at \$52,244.

Beaumont—Buildings.—A. F. Goodhue will erect four brick store buildings.

Beaumont—Grist Mill.—The mill lately reported as to be built by C. K. Price will be a grist mill. He has commenced work.



Dallas—School.—A school building is reported to be erected at a cost of \$3,000. J. B. Simpson can give particulars.

Dallas—Buildings.—Emerson, Tallcott & Co. will erect a brick building to cost \$12,000, and Markle & Glenn a bathhouse to cost \$5,000.

El Paso—Hotel.—It is reported that a hotel to cost \$200,000 will be built by Mr. Sheldon.

Fort Worth—Railroad.—The Fort Worth & Denver Railroad Co. will, it is stated, soon build their road into Fort Worth.

Fort Worth—Bagging Factory.—The Moss Collar Co. have added to their factory machinery for manufacturing jute bagging.

Gainesville—Coal Mining.—The Bodine Coal Co., capital stock \$200,000, has been chartered to mine coal in Texas and the Indian Territory by Herman Munzeshimer, of New York; Samuel Zuckerman and Charles I. Bodine, of Mineola, and Harry S. Downey and Thomas W. Jackson, of Galveston, Texas.

Greenville—Water Works.—John W. Harrison, F. B. Nichols and Thomas Howard, of St. Louis, Mo., and T. H. King, Joseph M. Cook and J. D. Lassater, of Greenville, have formed a company, and will build water works to cost \$85,000. Work is to be commenced within 60 days.

Greenville—Printing.—E. W. Harris will put steam power in his printing office.

Hillsboro—Bank.—A bank building will be erected by A. S. Henry, of Corsicana.

Huntsville—School.—The contract to erect the school building previously mentioned has been let to D. N. Darling at \$6,795.

Laredo—Iron Foundry.—George Dillon, of Palestine, is reported as negotiating for a site for the iron foundry previously reported as contemplated to be erected by him.

Lydia—Brick-yard.—A brick-yard is reported as being started.

Prairie View—Hall.—The contract to erect a hall at the Prairie View Normal School has been let to A. Baumbach, of Houston, at \$18,597.

San Antonio—Railroad.—The San Antonio & Aransas Pass Railway Co. will hold a meeting on August 30 to issue a mortgage for \$9,000,000 (\$15,000 per mile on completed road), and a second mortgage of \$8,000 per mile on completed road and all roads to be built in future.

San Antonio—Hall.—The contract to build the new city hall, previously reported, has been let to E. Braden at \$119,897.

San Antonio—Building.—Proposals for building the approaches to the United States courthouse and postoffice building will be received until August 29 by Will A. Freret, Washington, D. C.

Sherman—Building.—A \$10,000 stock company is being formed to erect a building for the Board of Trade.

Sipe Springs—Flour Mill.—R. H. Spink and J. C. Loughry will remodel their flour mill to the roller system. The capacity will be 50 barrels daily. They want prices on machinery.

Waco—Water Works.—Proposals for building water works at Waco, Texas, will be received until August 31 by the mayor, A. Hinchman. Contractors are to bid two ways, namely: 1st. Contractor to build, own and operate the works, stating at what price he will furnish the water per hydrant for fire protection and to private consumers, hotels, etc.; also the shortest time he will contract for. 2d. Contractor to build the works as per plans and specifications, and turn them over to the city of Waco. In either case state time required for the completion of same.

Weatherford—Water Works.—The Weatherford Water, Ice & Light Co. have let the contract for erecting a building for their works, previously reported, to W. J. Chelcut. Pipe-laying has commenced.

Whitewright—Church.—The Baptists will build a church soon.

#### VIRGINIA.

Alexandria—Houses.—A. J. Wedderburn will shortly build 17 houses.

Alexandria—Paper Mill.—Parties will make efforts to have a paper mill started.

Alexandria—Church.—The Second Presbyterian Church is to be remodeled.

Danville—Warehouse.—The Danville Warehouse & Storage Co., previously reported as to build a large warehouse, will, it is said, soon commence work. \$25,000 of the capital stock has been raised. W. F. Sutherland is interested.

Lynchburg—Cotton Mill.—The Lynchburg Cotton Mill & Improvement Co. will soon begin manufacturing brick for their cotton factory, previously reported.

Lynchburg—Extract Factory.—Holt, Schaefer & Co. have about doubled the size of their tobacco extract factory, and will put in vacuum pan and pumps and an 80 horse-power boiler.

Manchester—Building.—Bowen & Bradley have commenced work on a three-story brick building. The lower floor will be used as a printing office by the Manchester Leader, and the upper part is to be an opera house.

Middletown—Creamery.—A company will probably soon be formed to start a creamery.

Norfolk—Railroad.—The Virginia Beach Improvement Co. have borrowed \$200,000 to change the gauge of their road to standard and make other improvements.

Norfolk—Warehouse.—S. R. White & Bro. will build a warehouse.

Norfolk—Iron Foundry.—S. R. White & Bro., manufacturers agricultural implements, will increase the capacity of their foundry 2½ tons daily.

Norfolk—Railroad.—The American Construction Co., 100 Main street, will receive proposals until August 25 for building the Chowan & Southern Railroad from Drivers, Va., to Tunis, N. C., 36 miles, and from near Roberdel, N. C., to Tarboro, N. C., 37 miles.

Petersburg—Tobacco Factory.—C. A. Jackson contemplates building the tobacco factory reported last week, but has not fully decided.

Pocahontas—Water Works.—It is proposed to build water works with a capacity for population of 5,000. Practical parties are wanted to make plans, estimates, &c. The mayor can give information.

Portsmouth—Car Works.—The Virginia Car Equipment, Trust & Motive Power Manufacturing Co., previously reported as to build car works, have, it is stated, about concluded the purchase of the site for the works. They will, it is stated, soon start manufacturing brick for their works. Thos. Breen, of Pennsylvania, is president of the company.

Richmond—Gas Works.—The finance committee of the city council recommend that \$25,000 be appropriated to increase the generating capacity of the gas works.

Richmond—Phosphate Works.—The Pamunky Marl & Phosphate Co., lately mentioned as organized to mine and manufacture marl, phosphates, &c., will develop the marl deposits in the Pamunky river. Their works will be at West Point.

Richmond—Telegraph.—The Gray National Telautograph Co. has been incorporated with T. M. Logan as president; Chas. E. Coon, New York, vice-president and treasurer, and David I. Carson, New York, treasurer. The object of the company is to establish a telegraph, telephone and telautograph system. The capital stock of the company is to be not less than \$500,000 nor more than \$1,500,000.

Shadwell—Flour Mill.—A flour mill will probably be started soon.

Stony Point—Corn Mill.—Richard Woods

has contracted for machinery to erect a roller corn meal mill.

Suffolk—Buildings.—T. W. Smith will erect brick buildings.

Warsaw—Courthouse.—Richmond county is thinking of building a new courthouse to cost \$25,000.

#### WEST VIRGINIA.

Berkeley Springs—Tannery.—The report recently referred to that De Ford & Co., of Baltimore, Md., will double the capacity of their tannery, is correct. They want prices on boilers, rollers and scouring machine.

Bethany—Flour Mill.—The flour mill of Plummer Jones, near Bethany, previously reported as destroyed by a flood, will probably be rebuilt.

Buckhannon—Seminary.—Proposals for erecting the seminary building for the Methodists, previously reported, will be received until August 30 by J. C. Bardall, chairman building committee. E. W. Wells, of Wheeling, is architect and can give particulars.

Charleston—Opera House.—An opera house is to be erected.

Charleston—Paper.—The Kanawha Paper Co. has been chartered.

Charleston—Buildings.—L. Schwartz will erect 2 three-story brick store buildings.

Charleston—Coal Lands.—Judge Cochran, of Charlottesville, Va., has purchased 5,657 acres of coal lands on Coal river.

Harper's Ferry—Bottling Works.—James McGraw is erecting bottling works.

Murphy Mills—Hotel.—J. Piersoll will erect a new building to be used as a hotel.

Ripley—Saw Mill and Boom.—A large saw mill and a lumber boom are reported to be built.

West Virginia—Timber Lands.—W. F. Laird and William Dowd, of Brookfield, O.; J. G. Townsend, of Jamestown, N. Y., and W. A. Lafferty, of New York State, are purchasing timber lands.

Adam B. Groff, New Holland, Pa., wants to move his machinery for manufacturing wooden bowls to the South. He wants buckeye 20 to 30 inches in diameter in the log.

#### BURNED.

Blackstone, Va.—The tobacco stemmery of Smith & Co., and the Robinson Hotel.

Henderson, Ky.—The Henderson Milling Co's flour mill; loss \$15,000.

Henderson, N. C.—The five-story tobacco factory of Dibrell & Walker, the tobacco prize factory of J. W. Perry and the tobacco prize factory of E. G. Barnes and Barnes & Fleming.

Newberne, Tenn.—The blacksmith and woodshop of Dr. Beeches.

Rutherfordton, N. C.—The planing mill of J. F. Arrowood damaged by a boiler explosion.

Suffolk, Va.—The carriage factories of H. F. Artman & Son and J. M. Butler & Co., and the printing office of J. E. Booker. Loss on carriage factories is stated as \$30,000.

Washington, N. C.—The saw and shingle mill of Rufus Fleming, at Yankee Hall; loss \$4,000.

#### Erecting Cotton Compress.

ARKANSAS CITY, ARK., August 1, 1888.

Editor Manufacturers' Record:

We are building and will have in operation soon a new 90-inch Morse compress, capacity 70 bales per hour.

KY. & ARK. LAND & INDUSTRIAL CO.

#### Will Rebuild Saw Mill.

INGERSOL, TEXAS, July 27, 1888.

Editor Manufacturers' Record:

I contemplate rebuilding my saw mill immediately.

W. T. FAGAN.

#### MACHINERY WANTED.

If you desire to purchase machinery of any kind consult our advertising columns, and if you cannot find just what you wish, send us particulars as to the kind of machinery needed. We will make your wants known free of cost, and in this way secure the attention of machinery manufacturers throughout the country. You will thus get all information desired as to prices, etc.

Bags.—J. R. Keller, Pensacola, Fla., wants the address of manufacturers of bur-lap bags; also prices on such bags 26x36 inches.

Ballot Boxes.—Proposals for furnishing the police commissioners of Baltimore, Md., with 400 ballot boxes will be received until August 20 by E. M. Schryver. Boxes are to be constructed as follows: 'Each box shall be one foot, outside measure, as near as may be in width, depth and length, strapped and secured on each edge and corner with iron or brass, so as to prevent it from being easily broken, and shall have a wooden lid, which shall be fastened with brass or iron hinges and a good lock, and there shall be in the lid a slit just large enough to admit a single folded ballot at one time, and the sides of the box shall be of clear plate glass, not less than one-eighth of an inch in thickness.' All bids should be accompanied by a sample box.

Bridges.—The Harrison county commissioners, Clarksburg, W. Va., are receiving proposals for building 6 new iron bridges.

Electric Lights.—Proposals for lighting Natchez, Miss., with electric lights will be received until November 1. Address the mayor.

Feeder and Condenser.—Floyd & Ellis, Red Bud, Ga., wants prices on feeder and condenser for a 50-saw gin.

Flour Mill Machinery.—George C. Zeigler, Simpsonville, Md., wants to purchase some new machinery for his burr flour mill. He also wants hominy and buckwheat machinery.

Flour Mill Machinery.—R. H. Spinks and J. L. Loughry, Sipe Springs, Texas, want prices on machinery for remodeling their flour mill to a 50-barrel roller mill.

Foundry and machine shop machinery will shortly be wanted by the La Grange Foundry & Machine Shop, La Grange, Ga.

Furniture Machinery, Hardware, &c.—William P. Ames, 26 St. Charles street, New Orleans, La., president Southern Furniture Manufacturing Co., wants to correspond with manufacturers of machinery for furniture factory, hardware, &c. This company will put up \$30,000 of finest machinery.

Grist Mill and Gin.—J. E. Booth, Pulas-ki, Ga., will receive bids until August 15 for furnishing machinery for and erecting a grist mill and gin.

Hay Presses.—J. F. & W. A. Moore, Mount Airy, N. C., wants the address of manufacturers of power and hand hay presses.

Ice Machinery.—W. J. Forbes, Gayoso House, Memphis, Tenn., wants prices on ice machinery of 10 tons capacity.

Locomotive.—The Chewacla Lime Works, Chewacla, Ala., will shortly purchase a new or second-hand locomotive for standard gauge railroad 4 miles long.

Railroad Equipments.—Leatham & Smith, Sturgeon Bay, Wis., want to purchase rails (35-lb.) to build a railroad in Louisiana; also cars, locomotive, &c.

Railway Track Materials.—Steel or iron rails, 56 lbs. standard gauge, new or second-hand, splice bars, spikes, bolts, &c., &c. for from 6 to 7 miles of track, are wanted by Edward Shelley, Kingston, Tenn. 45-lb. steel rails will suit.



**Saw and Planing Mill Machinery.**—Leatham & Smith, Sturgeon Bay, Wis., want to purchase band saw mill and machinery for a planing mill to be erected at Tangipahoa, La.

**Scales and Whistles.**—F. W. Harbin, Calhoun, Ga., wants prices on scales and chime whistles.

**Smoke Consumer.**—J. R. Keller, Pensacola, Fla., wants information in regard to smoke consumers.

**Cotton Machinery.**—B. & J. A. Davidson, Gibsonville, N. C., want to purchase 1,000 spindles, second-hand, for manufacturing cotton yarns.

### A Big Saw Mill.

NEW YORK, July 31, 1888.

*Editor Manufacturers' Record:*

The Empire Mills, an incorporated company of New York, are engaged in building a mill of large capacity on the Doboy sound, at the mouth of the Altamaha river, Georgia, for cutting yellow pine timber. The capacity of contemplated mill will be 200 M feet per day, with ample docks and facilities for loading steam and sailing vessels. S.

### Will Enlarge Peanut Factory.

PETERSBURG, VA., July 30, 1888.

*Editor Manufacturers' Record:*

We expect to enlarge our factory by taking in the adjoining house and adding another story to same, thereby making the buildings four stories high, and, of course, it will necessitate our putting in a larger engine and boiler, as our force, as well as capacity, will be increased; about doubled. Front of houses 51 feet, running back 116 feet. M. LEVY & Co.

### Will Enlarge Foundry.

NORFOLK, VA., August 3, 1888.

*Editor Manufacturers' Record:*

We will enlarge our foundry capacity about 5,000 pounds per day over the present. S. R. WHITE & Bro.

### To Enlarge Soap Factory.

KNOXVILLE, TENN., August 3, 1888.

*Editor Manufacturers' Record:*

We intend to increase our capacity immediately from 1,800 boxes per week to 2,700 boxes, and we hope by the end of the year to more than double our present capacity. UNAKA SOAP WORKS.

### Electric Light Plant.

LITTLE ROCK, ARK., August 2, 1888.

*Editor Manufacturers' Record:*

We have organized a company of \$10,000 capital, called the Little Rock Electric Light & Power Co., and contracted with the Edison Co. for 1,000-light incandescent electric light plant, which will be in operation by October 1. W. O. THOMAS.

### Cotton Compress to be Erected.

DURANT, MISS., August 4, 1888.

*Editor Manufacturers' Record:*

The capital stock for a compress is subscribed. We think that we will have the Durant Compress & Improvement Co. organized soon. P.

STARKE, FLA., July 28, 1888.

*Editor Manufacturers' Record:*

I am now building a new mill in Starke to gin cotton, hull rice, grind corn and probably manufacture ice, and want to correspond with a manufacturer of small capacity ice machine; also with a manufacturer of rice polishing machines. JOE T. FEWKEA.

### To Manufacture Switches.

BIRMINGHAM, ALA., August 6, 1888.

*Editor Manufacturers' Record:*

The Hart-Wood Switch Co., capital stock \$100,000, fully paid, has been organized with J. A. Montgomery as president; J. F. Hart, secretary; W. G. Montgomery, treasurer. We are now having our turnouts made at the Elyton Land Co.'s shops, but will build shops of our own as soon as it can be done. Our company owns two patents, giving an automatic switch and cross-over with an unbroken main line, all worked by a lever in the cab of the engine, connection being made with the lever in the center of the track by a cone on the pilot bars of the engine. All of our stockholders and directors are railway men and civil engineers. Public trial will be made of the cross over this week. No frogs used at all. J.

### To Mine Coal and Manufacture Coke.

BIRMINGHAM, ALA., August 1, 1888.

*Editor Manufacturers' Record:*

We have formed a company to mine coal and make coke, build and operate a railroad to existing roads and to Birmingham, mine and manufacture iron and steel, &c. Name of company is the Mary Lee Coal & Railway Co., capital stock \$500,000. Own a large body of land within 4 to 7 miles of Birmingham on which there are three workable seams of coal, 3 feet 7 inches, 4 feet 3 inches, and 7 feet 4 inches thick; also good deposit of iron ore, one vein black band ore 23 inches thick. We will mine coal and make coke our specialty, and while we will eventually build a furnace, will not do so for some time. We mine on a large scale and will make our output 1,500 tons per day as soon as it can be done. J. A. MONTGOMERY.

### Large Hotel to be Built.

WASHINGTON, D. C., July 31, 1888.

*Editor Manufacturers' Record:*

The Hon. W. B. Webb and Harry R. Elliott, the trustees of the Randall estate, propose to erect a hotel on the southwest corner of Pennsylvania avenue and Fifteenth street, opposite the Treasury Building. The size of the building is not definitely determined, but it will probably be the largest as well as the finest, best appointed and most desirable hotel in Washington. The location is unquestionably the best for an all-of-the-year-around hotel. It has a magnificent frontage on the White House park, and will be, as regards convenience of location, outlook and accessibility, superior to anything in the city of Washington. The general plans are approved, but questions of detail, being left as prudence dictates to the views and wishes of the lessee, cannot at present be stated; the construction of the hotel is, however, a fixed fact. A. B. MULLETT, Architect.

### To Build Flour Mill.

ATLANTA, GA., July 30, 1888.

*Editor Manufacturers' Record:*

W. Ransom, Winchester, Tenn., has let the contract for 50-barrel roller mill through W. J. Dunn, Southern representative Nordyke & Marmon Co. W. J. DUNN.

### Rebuilding Tobacco Factory.

DANVILLE, VA., July 31, 1888.

*Editor Manufacturers' Record:*

We will rebuild immediately, and the building will be same as before. Capacity of building is to be 3,000,000 lbs. annually. ARNETT, SNEILING & Co

### To Start Large Furniture Factory.

NEW ORLEANS, LA., July 30, 1888.

*Editor Manufacturers' Record:*

I have formed the Southern Furniture Manufacturing Co., with a capital of \$350,000, to manufacture furniture, with a capacity of running 500 men. Our intention is to put \$30,000 of the finest machinery in the United States in our factory. Manufacturers of machinery, hardware, &c., can correspond with me. W. P. AMES, Pres.

### Moving Planing Mill and Wood-working Factory to Arkansas.

CHICAGO, ILL., August 1, 1888.

*Editor Manufacturers' Record:*

I have shipped to Marianna, Ark., all machinery for a complete planing mill and saw, door and blind factory, and expect about October 1 to commence the erection of a two-story building, 80x100 feet, and expect to have the mill running by the 1st of December. Have a 60 horse power engine, and expect to use 100 M feet of lumber per month. FRANK TRUNKY.

### Building Ice Factory.

DURHAM, N. C., August 2, 1888.

*Editor Manufacturers' Record:*

We have ice plant now in course of construction at this place, and hope to be running by 25th of this month. We bought the improved York Manufacturing Co. machine, with a 5 ton capacity for the present. HENDON & ATWATER.

FORT WORTH, TEXAS, July 28, 1888.

*Editor Manufacturers' Record:*

Fort Worth seems to be on what you may term a silent boom or a steady growth. There is now under construction about \$1,000,000 of improvements, consisting of residences, flouring mills, planing mills, electric lights and other manufactures. As we have more railroad outlets than any other place in the State, we are drawing no little attention from other States and cities. It is now almost a settled fact that this is destined to be the largest city in North Texas. Large additions have been laid off and added to the city, with nice wide streets, and street cars to be run to all the additions. It can be safely stated that nearly every one that has invested in real estate in our city has made money, and has far exceeded the expectations of many. Our bank clearings are larger than any other city in the State, so you can have some idea of the amount of business we do in our money circles. Our manufactures are all behind and are working until 10 o'clock at night to try and keep up with orders. GEO. B. HENDRICKS.

### The Manufacture of Wood Pulp for Paper.

The rapid development of wood pulp manufacture in Maine is an intimation to the South and West that there is a new industry to which their great forest areas may be, in part, very profitably devoted. For apparently, it doesn't matter what specie of wood is used in the production of pulp; possibly spruce is preferred in the extreme Northeast quite as much on account of its convenience as for any other reason. At any rate it is quite certain that poplar, hemlock, cypress and several other common woods would answer the

purpose of the business acceptably, and it is also contended that white pine would. What may be regarded as a specially attractive feature of the wood pulp industry, from the standpoint of economy, is that it utilizes the waste incident to timber cutting on a large scale. Only the limbs of the fallen timber are taken; so there is no competition possible with lumber manufacturers, rail splitters or others having use merely for the bodies of the trees. The only domain treasured upon is that of fire wood, more particularly in the corded form; but surely there could be no grievous losses in this direction to the fuel supply. For naturally the demand on behalf of wood pulp manufacture would center itself where timber is most abundant and cheapest; and in this way large quantities of felled timber, now left to feed forest fires, or decay on the spot, would be turned to profitable account commercially. —St. Louis Lumberman.

### To Start Canning and Ice Factories.

GRENADE, MISS., August 3, 1888.

*Editor Manufacturers' Record:*

The Grenada Improvement Co. intend putting up in the next few months canning factory, ice factory and steam laundry. J. F. HURLEY.

MANAGERS of mills, factories, furnaces, mines, etc., and parties starting manufacturing enterprises, and needing machinery or supplies of any kind, will find it profitable to consult the advertising columns of the MANUFACTURERS' RECORD. Its pages contain names of the best houses in the country among manufacturers of and dealers in machinery and mill supplies.

### Cotton Yarns and Warps.

Single skeins:		
75 to 100.....	.....	15 1/2 @ 16
100 to 200.....	.....	15 @ 18 1/2
200 to 300.....	.....	15 @ 20
300 to 400.....	.....	15 @ 22
400 to 500.....	.....	15 @ 24
500 to 600.....	.....	15 @ 26
600 to 700.....	.....	15 @ 28
700 to 800.....	.....	15 @ 30
800 to 900.....	.....	15 @ 32
900 to 1000.....	.....	15 @ 34
1000 to 1200.....	.....	15 @ 36
1200 to 1400.....	.....	15 @ 38
1400 to 1600.....	.....	15 @ 40
1600 to 1800.....	.....	15 @ 42
1800 to 2000.....	.....	15 @ 44
2000 to 2200.....	.....	15 @ 46
2200 to 2400.....	.....	15 @ 48
2400 to 2600.....	.....	15 @ 50
2600 to 2800.....	.....	15 @ 52
2800 to 3000.....	.....	15 @ 54
3000 to 3200.....	.....	15 @ 56
3200 to 3400.....	.....	15 @ 58
3400 to 3600.....	.....	15 @ 60
3600 to 3800.....	.....	15 @ 62
3800 to 4000.....	.....	15 @ 64
4000 to 4200.....	.....	15 @ 66
4200 to 4400.....	.....	15 @ 68
4400 to 4600.....	.....	15 @ 70
4600 to 4800.....	.....	15 @ 72
4800 to 5000.....	.....	15 @ 74
5000 to 5200.....	.....	15 @ 76
5200 to 5400.....	.....	15 @ 78
5400 to 5600.....	.....	15 @ 80
5600 to 5800.....	.....	15 @ 82
5800 to 6000.....	.....	15 @ 84
6000 to 6200.....	.....	15 @ 86
6200 to 6400.....	.....	15 @ 88
6400 to 6600.....	.....	15 @ 90
6600 to 6800.....	.....	15 @ 92
6800 to 7000.....	.....	15 @ 94
7000 to 7200.....	.....	15 @ 96
7200 to 7400.....	.....	15 @ 98
7400 to 7600.....	.....	15 @ 100
7600 to 7800.....	.....	15 @ 102
7800 to 8000.....	.....	15 @ 104
8000 to 8200.....	.....	15 @ 106
8200 to 8400.....	.....	15 @ 108
8400 to 8600.....	.....	15 @ 110
8600 to 8800.....	.....	15 @ 112
8800 to 9000.....	.....	15 @ 114
9000 to 9200.....	.....	15 @ 116
9200 to 9400.....	.....	15 @ 118
9400 to 9600.....	.....	15 @ 120
9600 to 9800.....	.....	15 @ 122
9800 to 10000.....	.....	15 @ 124
10000 to 10200.....	.....	15 @ 126
10200 to 10400.....	.....	15 @ 128
10400 to 10600.....	.....	15 @ 130
10600 to 10800.....	.....	15 @ 132
10800 to 11000.....	.....	15 @ 134
11000 to 11200.....	.....	15 @ 136
11200 to 11400.....	.....	15 @ 138
11400 to 11600.....	.....	15 @ 140
11600 to 11800.....	.....	15 @ 142
11800 to 12000.....	.....	15 @ 144
12000 to 12200.....	.....	15 @ 146
12200 to 12400.....	.....	15 @ 148
12400 to 12600.....	.....	15 @ 150
12600 to 12800.....	.....	15 @ 152
12800 to 13000.....	.....	15 @ 154
13000 to 13200.....	.....	15 @ 156
13200 to 13400.....	.....	15 @ 158
13400 to 13600.....	.....	15 @ 160
13600 to 13800.....	.....	15 @ 162
13800 to 14000.....	.....	15 @ 164
14000 to 14200.....	.....	15 @ 166
14200 to 14400.....	.....	15 @ 168
14400 to 14600.....	.....	15 @ 170
14600 to 14800.....	.....	15 @ 172
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19400 to 19600.....	.....	15 @ 220
19600 to 19800.....	.....	15 @ 222
19800 to 20000.....	.....	15 @ 224
20000 to 20200.....	.....	15 @ 226
20200 to 20400.....	.....	15 @ 228
20400 to 20600.....	.....	15 @ 230
20600 to 20800.....	.....	15 @ 232
20800 to 21000.....	.....	15 @ 234
21000 to 21200.....	.....	15 @ 236
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21400 to 21600.....	.....	15 @ 240
21600 to 21800.....	.....	15 @ 242
21800 to 22000.....	.....	15 @ 244
22000 to 22200.....	.....	15 @ 246
22200 to 22400.....	.....	15 @ 248
22400 to 22600.....	.....	15 @ 250
22600 to 22800.....	.....	15 @ 252
22800 to 23000.....	.....	15 @ 254
23000 to 23200.....	.....	15 @ 256
23200 to 23400.....	.....	15 @ 258
23400 to 23600.....	.....	15 @ 260
23600 to 23800.....	.....	15 @ 262
23800 to 24000.....	.....	15 @ 264
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25800 to 26000.....	.....	15 @ 284
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26600 to 26800.....	.....	15 @ 292
26800 to 27000.....	.....	15 @ 294
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27400 to 27600.....	.....	15 @ 300
27600 to 27800.....	.....	15 @ 302
27800 to 28000.....	.....	15 @ 304
28000 to 28200.....	.....	15 @ 306
28200 to 28400.....	.....	15 @ 308
28400 to 28600.....	.....	15 @ 310
28600 to 28800.....	.....	15 @ 312
28800 to 29000.....	.....	15 @ 314
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30000 to 30200.....	.....	15 @ 326
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30600 to 30800.....	.....	15 @ 332
30800 to 31000.....	.....	15 @ 334
31000 to 31200.....	.....	15 @ 336
31200 to 31400.....	.....	15 @ 338
31400 to 31600.....	.....	15 @ 340
31600 to 31800.....	.....	15 @ 342
31800 to 32000.....	.....	15 @ 344
32000 to 32200.....	.....	15 @ 346
32200 to 32400.....	.....	15 @ 348
32400 to 32600.....	.....	15 @ 350
32600 to 32800.....	.....	15 @ 352
32800 to 33000.....	.....	15 @ 354
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33600 to 33800.....	.....	15 @ 362
33800 to 34000.....	.....	15 @ 364
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34200 to 34400.....	.....	15 @ 368
34400 to 34600.....	.....	15 @ 370
34600 to 34800.....	.....	15 @ 372
34800 to 35000.....	.....	15 @ 374
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35200 to 35400.....	.....	15 @ 378
35400 to 35600.....	.....	15 @ 380
35600 to 35800.....	.....	15 @ 382
35800 to 36000.....	.....	15 @ 384
36000 to 36200.....	.....	15 @ 386
36200 to 36400.....	.....	15 @ 388
36400 to 36600.....	.....	15 @ 390
36600 to 36800.....	.....	15 @ 392
36800 to 37000.....	.....	15 @ 394
37000 to 37200.....	.....	15 @ 396
37200 to 37400.....	.....	15 @ 398
37400 to 37600.....	.....	15 @ 400
37600 to 37800.....	.....	15 @ 402
37800 to 38000.....	.....	15 @ 404
38000 to 38200.....	.....	15 @ 406
38200 to 38400.....	.....	15 @ 408
38400 to 38600.....	.....	15 @ 410
38600 to 38800.....	.....	15 @ 412
38800 to 39000.....	.....	15 @ 414
39000 to 39200.....	.....	15 @ 416
39200 to 39400.....	.....	15 @ 418
39400 to 39600.....	.....	15 @ 420
39600 to 39800.....	.....	15 @ 422
39800 to 40000.....	.....	15 @ 424
40000 to 40200.....	.....	15 @ 426
40200 to 40400.....	.....	15 @ 428
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40600 to 40800.....	.....	15 @ 432
40800 to 41000.....	.....	15 @ 434
41000 to 41200.....	.....	15 @ 436
41200 to 41400.....	.....	15 @ 438
41400 to 41600.....	.....	15 @ 440
41600 to 41800.....	.....	15 @ 442
41800 to 42000.....	.....	15 @ 444
42000 to 42200.....	.....	15 @ 446
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42400 to 42600.....	.....	15 @ 450
42600 to 42800.....	.....	15 @ 452
42800 to 43000.....	.....	15 @ 454
43000 to 43200.....	.....	15 @ 456
43200 to 43400.....	.....	15 @ 458
43400 to 43600.....	.....	15 @ 460
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44600 to 44800.....	.....	15 @ 472
44800 to 45000.....	.....	15 @ 474
45000 to 45200.....	.....	15 @ 476
45200 to 45400.....	.....	15 @ 478
45400 to 45600.....	.....	15 @ 480
45600 to 45800.....	.....	15 @ 482
45800 to 46000.....	.....	15 @ 484
46000 to 46200.....	.....	15 @ 486
46200 to 46400.....	.....	15 @ 488
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46800 to 47000.....	.....	15 @ 494
47000 to 47200.....	.....	15 @ 496
47200 to 47400.....	.....	15 @ 498
47400 to 47600.....	.....	15 @ 500
47600 to 47800.....	.....	15 @ 502
47800 to 48000.....	.....	15 @ 504
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48600 to 48800.....	.....	15 @ 512
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49600 to 49800.....	.....	15 @ 522
49800 to 50000.....	.....	15 @ 524
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50400 to 50600.....	.....	15 @ 530
50600 to 50800.....	.....	15 @ 532
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51000 to 51200.....	.....	15 @ 536
51200 to 51400.....	.....	15 @ 538
51400 to 51600.....	.....	15 @ 540
51600 to 51800.....	.....	15 @ 542
51800 to 52000.....	.....	15 @ 544
52000 to 52200.....	.....	15 @ 546
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52800 to 53000.....	.....	15 @ 554
53000 to 53200.....	.....	15 @ 556
53200 to 53400.....	.....	15 @ 558
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53600 to 53800.....	.....	15 @ 562
53800 to 54000.....	.....	15 @ 564
54000 to 54200.....	.....	15 @ 566
54200 to 54400.....	.....	15 @ 568
54400 to 54600.....	.....	15 @ 570
54600 to 54800.....	.....	15 @ 572
54800 to 55000.....	.....	15 @ 574
55000 to 55200.....	.....	15 @ 576
55200 to 55400.....	.....	15 @ 578
55400 to 55600.....	.....	15 @ 580
55600 to 55800.....	.....	15 @ 582
55800 to 56000.....	.....	15 @ 584
56000 to 56200.....	.....	15 @ 586
56200 to 56400.....	.....	15 @ 588
56400 to 56600.....	.....	15 @ 590
56600 to 56800.....	.....	15 @ 592
56800 to 57000.....	.....	15 @ 594
57000 to 57200.....	.....	15 @ 596
57200 to 57400.....	.....	15 @ 598
57400 to 57600.....	.....	15 @ 600
57600 to 57800.....	.....	15 @ 602
57800 to 58000.....	.....	15 @ 604
58000 to 58200.....	.....	15 @ 606
58200 to 58400.....	.....	15 @ 608
58400 to 58600.....	.....	15 @ 610
58600 to 58800.....	.....	15 @ 612
58800 to 59000.....	.....	15 @ 614
59000 to 59200.....	.....	15 @ 616
59200 to 59400.....	.....	15 @ 618
59400 to 59600.....	.....	15 @ 620
59600 to 59800.....	.....	15 @ 622
59800 to 60000.....	.....	15 @ 624
60000 to 60200.....	.....	15 @ 626
60200 to 60400.....	.....	15 @ 628
60400 to 60600.....	.....	15 @ 630
60600 to 60800.....	.....	15 @ 632
60800 to 61000.....	.....	15 @ 634
61000 to 61200.....	.....	15 @ 636
61200 to 61400.....	.....	15 @ 638
61400 to 61600.....	.....	15 @ 640
61		



### Contemplate Erecting Electric Light Plant.

ATHENS, GA., August 4, 1888.

Editor Manufacturers' Record:

We are figuring on electric light plant and will probably add it to our plant this fall.

ATHENS GAS LIGHT CO.

BALTIMORE, MD., August 3, 1888.

Editor Manufacturers' Record:

We are erecting a two-story building, 65x122 feet, at our tobacco factory, for an engine and boiler-house, machine shop, etc., and a hall in the second story where our hands can stay over dinner hours.

G. W. GAIL & AX.

BENTONVILLE, ARK., July 30, 1888.

Editor Manufacturers' Record:

I shall commence the manufacture of cider vinegar, apple and peach butter here about September 1; will also add jelly factory as soon as necessary buildings and machinery can be put in place.

JOHN M. WITHROW.

### TRUSTEE'S SALE.

By virtue of a mortgage executed to me, I will sell at public auction for cash, September 5th, 1888, the following valuable property in Mt. Airy, N. C., to wit:

One new Residence, two stories, 8 rooms, finished in walnut; on best residence street in town. Lot, 120 x 200, two squares from the business part of the town.

Two Vacant Lots, adjoining the above, 70x100 feet each; also, 5 1/2 acres with 245 feet frontage on same st.

One new Tobacco Factory, 40x80 feet, lot 190x225, Main street, center of town.

Store House, at the intersection of two streets, at which 3/4 of the country trade enters; lot 164x225, store house 60x60.

Vacant Lots, 12x180, half way between depot and business parts of town.

Four Acres on Wilson street, near depot.

Vacant Lots, 318x250 feet, on Rockford street. From these lots one can see three States, seven counties, the mountains as far as the eye will reach, the river four miles, Railroad three miles; scenery unexcelled, highest ground in town, splendid site for summer hotel.

24x350 feet on same street opposite above.

25 Vacant Lots in the most desirable residence and business part of town. All of this property will be sold regardless of cost **FOR SPOT CASH.**

MT. AIRY, the terminus of the C. F. & Y. V. R. R., STANDS ALONE, UNEQUALLED, UNRIVALLED, and is springing into importance because of its many natural advantages. The opportunities for lucrative investment are numerous. Brains, energy and capital are coming in from all points of the compass. The impelling power must be ascribed to the geographical location which nature has planned for a large city, being centrally located and the natural market for nine counties. Rich in mine, forest and farm, and having enough untapped water power to drive the machinery of the entire State. To see the stupendous scenery when the mountain peaks and pinnacles bathe their lofty heads in the balmy altitude of more than 3,000 feet above the sea level, and to enjoy the invigorating air and health-giving climate, etc., one will not be surprised at the rapid growth of MT. AIRY. Don't forget the time, September 5th, 1888.

All inquiries will be cheerfully and promptly answered by J. P. RAWLEY, care Central Hotel, Mt. Airy, N. C.

H. H. REYNOLDS, Trustee.

### Boom Your Town!

And Develop Your Property.

or employ a careful, active, reliable, experienced, competent and enterprising REAL ESTATE MAN to do it for you. Such a man offers his services to

**Any Land Co. or Syndicate**

organized for the purpose of building a town or speculating in Real Estate. He is 38 years of age, has five years' experience in the Real Estate business—one year with the most successful Real Estate Investment Co. in Kansas City, Mo.—the queen of "booming" cities. Competent to manage a Real Estate scheme from its inception to its close. Address, "VIRGINIAN,"

Care MANUFACTURERS' RECORD, Baltimore, Md.

### Proposals for Public Buildings

Assistant Quartermaster's Office,  
Atlanta, Ga., August 1, 1888.

Scaled proposals in triplicate, subject to usual conditions, will be received at this office until 11 o'clock a. m. (central time) Friday, August 31, 1888, at which time and place they will be opened in the presence of attending bidders for the construction of the following described public buildings, on the military reservation near Atlanta, Ga., viz: Two (2) double barracks, two (2) double sets of officers' quarters, one (1) set hospital steward's quarters. The government reserves the right to reject any or all bids or parts thereof. Blank proposals, plans and specifications and instructions to bidders, terms of contract, etc., will be furnished on application to this office. Envelopes containing proposals should be marked "Proposals for public buildings," and addressed to the undersigned,  
J. W. JACOBS,  
Captain and A. Q. M., U. S. A.

### Cotton and Woolen MACHINERY.

50 Crompton Fancy Cotton Looms, nearly new, 36 inch reed space, for 12 Harnesses, 4 boxes at one end, 1 at the other.

My Store Houses here have over 2 ACRES of storage, which is covered with good machinery, including nearly full systems for Cotton and Woolen Mills.

■ JEREMIAH CLARK, ■

Lowell, Mass. Office, 108 Middle St.

### For Sale at a Bargain!

ATLANTA, GA.

### Machine Works and Foundry.

The above popular works are embraced in nearly two acres of land, only 500 yards from the center of Atlanta, fronting on Hunter and King streets, and the Georgia Railroad, with spur tracks running into the grounds. Largest works in Atlanta, commanding the trade of the entire South. The most complete plant for manufacturing every variety of machinery, with many specialties, the demand for which is increasing daily. An endless variety of valuable patterns. Buildings substantial brick, with metal roofs. Large contracts awaiting the resumption of these works. A rare opportunity is offered for making money to a party purchasing. A bargain will be given and easy terms. For particulars address **A. E. BUCK, Receiver.**

## Brown Ore

## Lands.

### 5,000 Acres Brown Hematite Iron Ore & Timber Lands for Sale.

We have for sale about 5,000 acres of Brown Hematite Iron Ore Lands. The ore on this property is practically inexhaustible. THOUSANDS OF TONS VISIBLE TO THE EYE. The quality is equal to any in the South, being low in phosphorus, and will average fully 56 per cent. Metallic Iron. We invite inspection and examination. It is situated about two miles from the main line of railroad, and with a branch built over a very feasible route two or two and a half miles in length, the ore can be placed on the cars at a cost of from 25 to 40 cents per ton. This property is also heavily timbered with Yellow Pine, and the water privileges unexcelled. Contracts can be made to supply thousands of tons of these ores to furnaces contiguous at prices ranging from one to one and a-half dollars per ton, f. o. b. at the mines. Apply to

## REES & CAMFIELD,

Anniston, Ala.

### FOR SALE Cotton & Woolen Machinery,

In full lines for both plain and fancy manufacturing in all departments, in stock. Also for Bleaching, Dyeing and Printing. Engines, Boilers, Tools and Supplies.

**W. SEABURY SIMMONS,**  
22 Chambers Street, New York.

### For SALE or Rent

**THE PATAPSCO COTTON FACTORY,**  
On the Patapsco river, near Ellicott City, about 9 miles from Baltimore, with about 36 ACRES OF LAND AND 24 DWELLINGS for employees. Main Building 4-STORY AND ATTIC, with all necessary machinery and appliances for immediate operation. FULL SUPPLY OF WATER FROM THE RIVER DAM.

This fine plant can be made available for any kind of manufacturing industry at moderate expense. For further particulars and permit of inspection, apply to

**WM. C. PENNINGTON,**  
President Gray Manufacturing Co.,  
S. W. corner South and Water Streets,  
BALTIMORE, MD.

### MEMPHIS Land & Timber Co.

No. 10 Madison Street,  
MEMPHIS, TENN.

### OFFERS FOR SALE

## 250,000 ACRES OF Timber & Agricultural LANDS

In the Counties of Clay, Greene, Craighead, Poinsett, Mississippi, Cross, St. Francis, Crittenden, Woodruff and Monroe, in the State of

### ARKANSAS,

in bodies to suit purchasers. Prices very reasonable. Correspondence invited.

## FOR SALE.

### A Splendid Saw Mill Location and Five Million Feet of Timber.

Four Million Feet of Cypress and One Million Feet of Pine.

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**Devices.**  
**Mason Regulator Co.**  
BOSTON.

### Brick Machinery.

Many of the prominent brick manufacturers of Baltimore engaged in the production of common building brick are using what is known as the "Chambers" brick machine. It is of the class known as clay tempering machines, making a stiff tempered brick. The clay as taken from the bank is hauled directly to the machine, and, after being moistened as may be required, is fed through a hopper into the tempering chamber, where it is thoroughly pugged or tempered.

The machines first, after tempering the clay, form it into parallel bars the proper width and thickness for a brick, sand the surface, cut this bar into uniform lengths proper for bricks, and then deliver the bricks so moulded and sanded at any convenient distance from the machines sufficiently stiff to be immediately wheeled and backed in the shed or on drying car.

The tempering portion of the machine (Fig. 1) consists of a strong cast iron conical case, in which revolves a horizontal shaft into which are set, spirally, strong tempering knives or blades of wrought iron or steel, so that, as they pass through the clay, they move it forward. The clay being stiff, and not having much water on it, it is liable to slip before the knives, but is cut through and through, and thoroughly tempered, the air escaping back through the untempered clay, so that by the time the clay reaches the small end of the tempering case it is ready to be formed into bricks.

On the end of the tempering shaft is secured a conical screw of hard iron, which revolves in a chilled iron conical case, the inside of which is ribbed or fluted length-

the surface of the bar. The surplus sand is kept back in the chamber by swinging elastic scrapers, which allow the bar to escape with its adhering sand.

This sanded surface of the clay bar renders the bricks, when green, much nicer to handle, prevents them from sticking together on the barrows or in the hacks, or on the drying cars, and much improves them in color when burnt.

This continuous rectangular bar is then cut into brick lengths by automatic devices which are under the control of the issuing clay bar.

The advantages claimed for the bricks

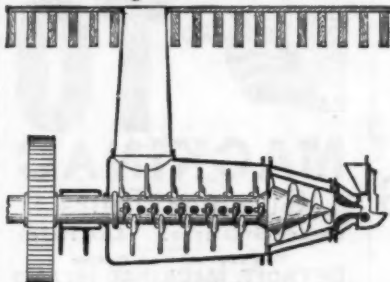


FIG. 1.

made on the Chambers' machine are great strength, low cost of production, uniformity in size, least possible amount of waste at the building and kilns.

Messrs. Chambers, Bro. & Co., of Philadelphia, are the manufacturers, and offer the machines in three sizes of 10,000, 25,000 and 50,000 bricks per ten hours capacity, and for responsible brickmakers will erect them subject to trial and approval. Any one having building brick to make should get their catalogue of brick-making machinery.

Dame as a school. This roof did first-class service and gave good satisfaction until about ten years ago, when, upon some changes being made in the building, it was taken off. The material composing it has since been sold to different parties, and is now used to cover various sheds and stables and other small buildings in Covington and vicinity.

In 1861 Mr. Meninger covered the "Chas. Whitcomb House," adjoining the 4th Street Presbyterian Church, with corrugated iron. This roof is doing perfect service to-day; the expense for repairs and even repainting has been hardly worth mentioning.

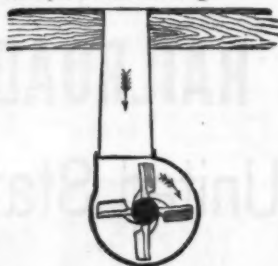


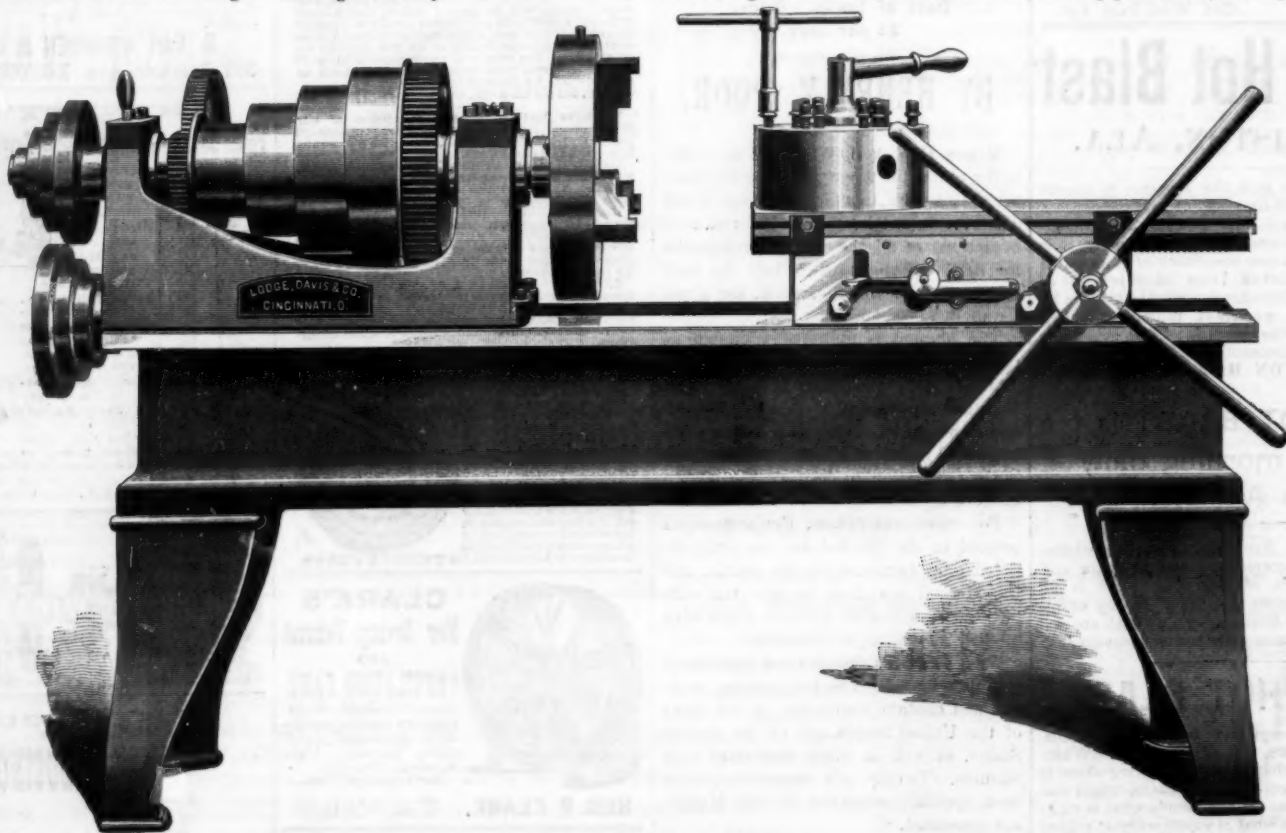
FIG. 2.

In 1863 Mr. Meninger put a similar roof of corrugated iron on a brick building erected for Mr. George Phillips, who then owned the property—the lot now occupied by the 4th Street Presbyterian Church. Mr. Phillips manufactured and prepared the material himself in his rolling mill. The building has been used as a dwelling most of the time since then, and this roof has answered its purpose admirably. It is now in a remarkably good state of preservation, considering that it has had no attention in

Covington were originally covered with an iron roof, which remained for over 23 years in a good state of preservation, and was only recently removed on the occasion of some repairs and changes.

### 21-Inch Turret Chucking Lathe.

We herewith illustrate a new turret chucking lathe manufactured by Messrs. Lodge, Davis & Co., of Cincinnati, Ohio. This tool will be found useful in the machine shops of all who wish to keep up with the times. It is said that enough work may be bored on it to keep twenty lathes constantly at work, which is a great saving over the plan of providing each lathe with an expensive chuck, in addition to which, the time is saved of taking off face plate, putting on chuck, looking up drill holders, drills, reamers, etc., and possibly losing time in sizing drills, or waiting for the blacksmith to dress them. When the tools for this machine are made and placed on a stand in front of the machine there is no further trouble, as no one else uses them, and the chuck is always on machine and tools ready for work. This lathe swings 21 inches, is back-geared, and has 7 foot bed. Extraordinary care has been taken in designing this bed to give it ample stiffness for the work required of it. Cone pulley has four changes for 34-inch belt; largest speed is 14 inches in diameter; has hollow spindle its entire length, bored 1½ inches; front bearing is 3½ inches in diameter, 5½ inches in length, and boxes are phosphor-bronze. Turret is 12 inches in diameter, revolves automatically, and is bored 1½ inches, unless otherwise ordered. Turret slide is operated by pilot wheel, and is provided with



21-INCH TURRET CHUCKING LATHE.

### The Life of an Iron Roof.

The length of time that an iron roof will last is a matter of interest, and on this subject we have, through the Cincinnati Corrugating Co., some valuable information from Mr. W. A. Meninger, of Covington, Ky., who has had upwards of 35 years' experience in the roofing trade in that vicinity.

Mr. Meninger states that in 1856 he put a corrugated iron roof on what was then known as the "Clayton Young House," at No. 33 West 5th street, Covington, which is now occupied by the Sisters of Notre

the way of repainting for a number of years.

Mr. Meninger also cited the history of a number of old-time iron roofs with which he is personally acquainted. The old Howe warehouse on Market Space had over it for over 30 years an iron roof. After affording complete protection for this long period, and over an almost flat surface, it was removed about three years ago. The Licking Rolling Mill has a corrugated iron roof which has been on for over 25 years, and to Mr. Meninger's certain knowledge it has never had a coat of paint since it was first put on. The Kentucky Central Railroad shops in

adjustable automatic stop to the power feed, and will bore holes up to 13 inches in length without resetting. The feed is thrown in and out on front side of turret; back and forward motions are provided on countershaft in order that taps and dies may be used. Countershaft, wrenches, etc., furnished with each machine. They fit an 18-inch 4-jaw combination chuck to each lathe. For further information write the makers.

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wise, so as to prevent the clay from revolving in it, and is chilled to prevent wearing. (See Fig. 1).

The screw being smooth and very hard, the clay slides on the screw, thus becoming, as it were, a nut; the screw revolving and not being allowed to move backward, the clay is thus forced through the "former" and rectangular die which determines the width and thickness of the brick and can be changed at will.

As the bar of clay issues from the forming die, it passes through a small chamber filled with fine, dry sand, which adheres to



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**HILL**  
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Cylinder 90 inches in Diameter.

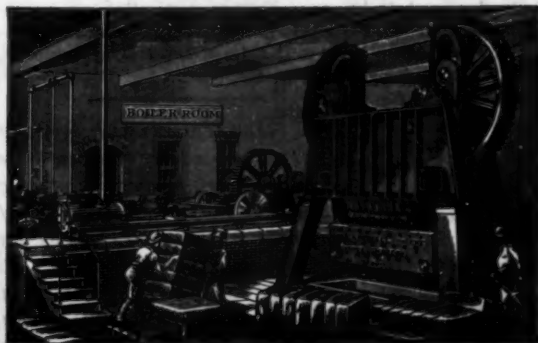
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1st.—The most **POWERFUL** Compress in the world. 2d.—The **STRONGEST**. 3d.—The most **SIMPLE**, consequently the least liable to get out of order. 4th.—The most **ECONOMICAL**, effecting a saving of from 30 to 50 per cent. in fuel. 5th.—It will compress as many, if not more, bales per day, as any other compress. 6th.—It is far the cheapest of any first-class Compress on the market. This machine is fully warranted to do the work as represented. Correspondence solicited. Address

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## The Campbell Cotton Compress Co.



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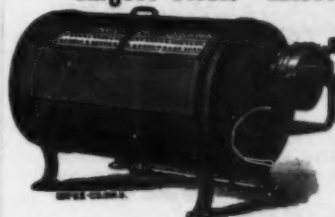
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### Improved No. 2 Swing Cut-Off Saw.

This machine differs from the old one formerly made by Messrs. Frank & Co. by being much heavier and the frame much wider at the top, which places the bearings further apart, thereby preventing any lateral spring or vibration of the saw and securing more accurate work. The frame is hung on the end of the boxes that the countershaft runs in, so as to cause no extra friction by its weight. There is a spring attached to one of the hangers, connected with top of swing frame, which holds the saw back when not cutting, and after cutting off a board brings it back. There is a guard or shield covering the saw to prevent accident. The tight and loose pulleys are ten inches in diameter and five inches face, and should make 500 revolutions per minute. Prices will be quoted by addressing Frank & Co., Buffalo, N. Y.

### Reeder Self-Packing Cotton Press.

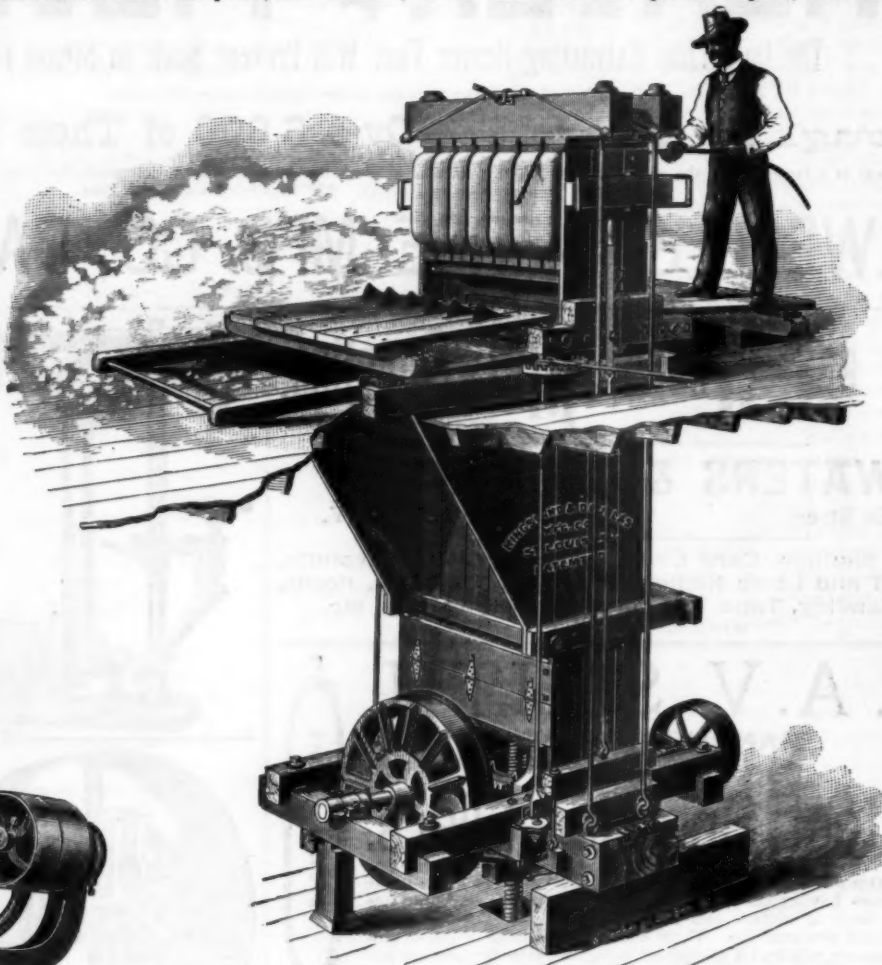
The primary object of the Reeder self-packing cotton press is to avoid the expensive, difficult and disagreeable manual labor of tramping or packing the cotton or material sufficient to form a bale in one operation, and also to accomplish the successive charges within the shortest possible time consistent with the power required to form a sufficiently heavy bale.

The bale is finished in the upper portion of the press. One side of the lower por-

not in the way at any time. These levers are self-locking and hold this door firmly in position and can be easily and quickly handled. The side doors at their bottom are provided with automatic dogs, which move out by the pressure of the cotton when being forced up until the follower has passed them, after which they drop in about six inches on each side of the press

as to give two speeds to the follower in running up. One of these paper friction pulleys is intended to run 200 revolutions per minute, and is provided with the regular driving pulley which is 22-inch diameter, 7 inch face. The other is intended to run 500 revolutions per minute, and is provided with a driving pulley 12 or 14 inch diameter, 7-inch face. This fast

matic dogs have dropped into the press to retain the cotton in the top of same. These dogs are placed on a line with the tie slots in follower, and are not in the way of the follower when it recedes. The bagging is not placed on the follower until ready for the last charge, e. Each charge is pressed in the baling chamber, or upper part of the press, where it is retained until



REEDER SELF-PACKING COTTON PRESS.



IMPROVED NO. 2 SWING CUT-OFF SAW.

speeded friction pulley is intended to be used for the successive charges and for running screw down, and can be used on the last charge until within a few inches of the completion of pressing of the bale, when this may be thrown out of gear, and the slow speeded friction pulley thrown in gear for the heavy pressing. With the addition of this fast speeded friction, the three charges may be made in about the same time usually occupied in forming a bale in one charge with the usual or slow speeded gearing.

The friction gear is thrown in and out of gear by means of eccentrics and rods, which extend up above the floor, and devices are furnished by which they are held in and out of gear, which are convenient and easily operated.

The press is also provided with a patent device which automatically stops the revolving of the screw when the follower has receded to its proper position. This prevents the screw from running down too low, and all danger on this score from carelessness is avoided.

The way in which these presses are operated is contrary to the mode of operation without these improvements. The doors are first closed in the top of the press and the bagging is placed under the platens at the top before pressing. The hopper side is thrown open and the lower part is filled with lint and packed with a forked paddle which is furnished for the purpose (and by which the lint is also conveyed from the condenser to the press); after the lower box has been fully charged, the hopper door is closed and the follower is run up by the fast speed until the auto-

matic dogs have dropped into the press to retain the cotton in the top of same. These dogs are placed on a line with the tie slots in follower, and are not in the way of the follower when it recedes. The bagging is not placed on the follower until ready for the last charge, e. Each charge is pressed in the baling chamber, or upper part of the press, where it is retained until

The self-packing press is a great labor-saving machine, as it dispenses with tramping, and was extensively used last season. Further particulars can be obtained from the manufacturers, the Kingsland & Douglas Manufacturing Company, St. Louis, Mo.

*The MANUFACTURERS' RECORD solicits correspondence relating to the manufacturing, mining, lumbering and all other material interests of the Southern States. Letters on any phase of Southern development, facts as to the resources of this section, notes of new enterprises to be started, etc., etc., will all find a welcome. Reaching so many capitalists in all parts of the United States seeking profitable investment in the South, the MANUFACTURERS' RECORD offers an excellent chance for the people in that section to place the advantages of each locality before those likely to be interested.*

tion of the box is pivoted at the bottom, similar to the side doors in the top where the bale is finished. The top of this door extends up on a line with the floor of the second story, and is opened out about two feet, forming a hopper-shaped opening at the floor for the reception of cotton at the bottom of the press, and is manipulated, held opened and closed by means of a combination of patent levers, which are

and hold the cotton up in the top of press, when the follower recedes for the reception of another charge.

Three charges are all that are required to form a 500 to 600-lb. bale of cotton, without any tramping or getting in the box, and in some cases a heavier bale has been made in three charges.

The patent friction attachment is arranged with two paper friction pulleys so



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—AND—  
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Costs no more for Gears  
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Full to One-half Gate  
of any Wheel  
ever made.



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When ordered.	Name and Address.	Size of Wheel, Inches.	When ordered.	Name and Address.	Size of Wheel, Inches.
1897.	Arctic Ice Co., Augusta, Ga.	1-35	1883.	The Roberdel Mfg. Co., Rockingham, N. C.	1-30
	B. Merry, Berzella, Ga.	1-31		Hope Mills, Hope, N. C.	1-35
	J. B. Connelly, Augusta, Ga.	1-30	1884.	Porter Mfg. Co., Clarksville, Ga.	1-30
	Summersville Mills, Augusta, Ga.	1-27		Fairmount Mfg. Co., Williston, Ga.	1-45
1880.	Pee Dee Mfg. Co., Rockingham, N. C.	1-30		E. I. De Pont, De Nemours & Co., Wilmington, Del.	1-30
	Langley Mfg. Co., Langley, S. C.	1-25		Geo. W. Brackensridge, San Antonio, Texas	1-15
	Clifton Mfg. Co., Clifton, S. C.	1-34		Young & Hack, Augusta, Ga.	1-45
	Piedmont Mfg. Co., Piedmont, S. C.	1-24	1885.	Richmond & Alleghany R. R. Co., Richmond, Va.	1-20
1881.	D. E. Converse, Glendale, S. C.	1-18		San Antonio Water Works, San Antonio, Texas	1-35
	Eagle & Phoenix Mfg. Co., Columbus, Ga.	1-36		James Riddle & Son, Wilmington, Del.	1-30
	Arctic Ice Co., Augusta, Ga.	1-30	1886.	Roswell Mfg. Co., Roswell, Ga.	1-35
	" " " " " "	1-23		Thomas M. Holt, Haw River, N. C.	1-40
	" " " " " "	1-25		Ready River Mfg. Co., Ready River Factory, S. C.	1-35
	Clifton Mfg. Co., Clifton, S. C.	1-34		Josiah & Moore Paper Co., Wilm's, Del.	1-40
	Dr. J. S. Boyd, Clay Hill, Ga.	1-15		" " " " " "	1-35
	Thomas M. Holt, Haw River, N. C.	1-45		" " " " " "	1-31
	Eagle & Phoenix Mfg. Co., Columbus, Ga.	1-35		Marietta Paper Mfg. Co., Marietta, Ga.	1-30
	Princeton Mfg. Co., Athens, Ga.	1-30		" " " " " "	1-30
1882.	D. E. Converse & Co., Glendale, S. C.	1-18		Augusta Factory, Augusta, Ga.	1-40
	H. A. Merry, Berzella, Ga.	1-27		Lockwood & Kampman, San Ant'o, Tex.	1-15
	K. Lockhart, Eshanks, Ga.	1-27		" " " " " "	1-25
	South Carolina R. R. Co., Charleston, S. C.	1-25	1887.	Durham Water Works, Durham, N. C.	1-35
	Roswell Mfg. Co., Roswell, Ga.	1-30		Richmond Paper Mfg. Co., Richmond, Va.	1-35
	Richmond & Alleghany R. R. Co., Richmond, Va.	1-9		Augusta Electric Light Co., Augusta, Ga.	1-35
	Riverside Cotton Mills, Danville, Va.	1-45		Petersburg Electric Light Co., Petersburg, Va.	1-30
	Leak, Wall & McRae, Rockingham, N. C.	1-45		J. N. Williamson, Gibsonville, N. C.	1-30
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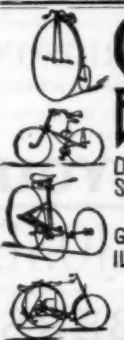
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52 inch, factory price	\$80.00,	our price	\$40.00
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Order quick. Also 250 second-hand Wheels. Repair-  
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# ROANOKE CITY, VA.

POPULATION 1881, 400.

POPULATION 1888, 12,000.

Roanoke City is located in the mountains of Virginia, 1,000 feet above sea level—between the Blue Ridge range on the east and Alleghany range on the west.

It has an elegant Courthouse, Market-House, Opera House, Public School Houses, Firemen's Hall and many other public buildings.

Has a Gas Company with a capital of \$120,000.

Has an Electric Light System, both arc and incandescent—in course of construction.

Has a system of Water Works, the finest in the State, worth \$250,000.

Has 12 churches, representing nearly every denomination.

Has four banks, operating on an aggregated capital of \$450,000.

Is the headquarters of the Norfolk & Western Railroad Company, which employs 300 clerks.

Is the headquarters of the Shenandoah Valley Railroad, which employs 75 clerks.

Is the headquarters of the Pocahontas Coal Company, the largest coal operators in the world.

Is the headquarters of the Virginia Steel Company, which is backed by \$5,000,000 in cash.

Is the headquarters of the Virginia Company, operating on a large capital.

Is the headquarters of the Washington & Western Railroad Company.

Is the headquarters of the Virginia Mineral Railroad Company.

Is the headquarters of the Roanoke & Southern Railroad Company—now under construction.

Has a large wholesale and retail trade, embracing sixteen of the most productive counties in the Old Dominion, and its wholesale trade extends into West Virginia, Tennessee and North Carolina.

Has the most delightful and healthiest climate in the world.

Has, within fifty miles of it, a dozen of the most famous watering places in America.

Has The Crozer Steel & Iron Company, operating on a capital of \$500,000, employing 300 men, and turning out 120 tons of pig iron per day.

Has the Roanoke Machine Works, with a capital of \$1,000,000, and employing 1,000 men.

Has the Roanoke Rolling Mill, with a capital of \$150,000—in course of erection.

Has a Roller Flouring Mill, valued at \$15,000.

Has the Diamond Ice & Refrigerator Company, capital \$25,000.

Four Planing Mills, with a capital of \$25,000.

The railroads and various manufacturing enterprises of Roanoke have monthly pay rolls aggregating \$150,000, all of which is paid to citizens of Roanoke.

Has four hotels capable of accommodating 500 guests; Hotel Roanoke cost \$80,000.

375 houses were erected in Roanoke City during 1887, and at least 800 will be erected during 1888. There are at present 200 buildings under construction.

The bonded debt of Roanoke City is smaller than that of any city in the South of equal size, being less than \$150,000. The city tax rate is \$1.10 on the hundred dollars—lighter than that of any city in the South.

Roanoke City will spend, during 1888, \$16,000 for public school buildings; \$25,000 for sewerage; \$25,000 for streets, and about \$15,000 for miscellaneous public improvements.

An Opera House Company has been chartered and will erect a \$50,000 theatre building.

The Roanoke Street Railway & Transportation Company has been chartered and will construct three miles of street railway.

The Home Building & Conveyance Company has been chartered and are now building and preparing plans for 100 residences.

Has the Roanoke City Mills, capital \$20,000.

Trade of Roanoke has increased 300 per cent. during the past three years.

1,000 miles of railroad now in operation, focus at Roanoke.

Roanoke is 258 miles west of Norfolk, and 150 miles east of Bristol, on the Chesapeake line.

The only city of any consequence within 400 miles of Roanoke is the city of Lynchburg, by the James.

Roanoke is the supply depot for a territory embracing 16 counties in Virginia and many of the border counties of West Virginia, Tennessee and North Carolina.

Roanoke is the headquarters of nearly all the mining companies now operating in the Southwest.

Has the largest fruit and vegetable canning factory in the South, with a capacity of 15,000 cans per day.

Has the Roanoke Land & Improvement Company, operating on \$600,000 capital.

Has four Building and Loan Associations, capital \$350,000.

Has the Roanoke River passing along its borders, furnishing unsurpassed water power for manufacturing purposes.

Has more undeveloped mineral wealth within easy reach than any city in the South.

Roanoke will soon be the terminus of two divisions of the Norfolk & Western Railway system, thus adding 1,500 to its population.

Roanoke is building a Masonic Temple to cost \$25,000, and a Y. M. C. A. building to cost \$20,000.

Real estate is from 100 to 200 per cent. cheaper in Roanoke than in any city of promise in the South.

Roanoke will have a population of 25,000 souls when the census of 1890 is taken.

We want men of money and men of muscle.

Has the West End Land Co., operating on a capital of \$40,000, paid up.

# ATHENS, East Tennessee,

THE COMING

→ Iron and Manufacturing City of the South. ←

Athens is the county seat of one of the most fertile counties in East Tennessee. The health of the city is unsurpassed, and is **ABSOLUTELY FREE FROM ALL MALARIAL OR EPIDEMIC DISEASES**. The surrounding scenery is very fine. From the main avenue the whole valley of East Tennessee can be seen, from the Cumberland Mountains on the west to the Great Smoky Mountains on the east; some of the tallest peaks east of the Rockies being in full view. **FINE MINERAL SPRINGS** are adjacent and are popular summer resorts. The society of Athens is excellent. A cordial welcome is extended to all law-abiding people locating in the town. The **EDUCATIONAL FACILITIES** are good. Beside public and preparatory schools, Athens is the seat of **THE GRANT MEMORIAL UNIVERSITY**, which has an enrollment of over 300, and whose graduates include some of the most distinguished citizens in the country. Among the industries and institutions of the place in active operation are:

**THE ATHENS BUILDING & LOAN ASSOCIATION, \$250,000.**      **THE ATHENS WOOLEN MILLS, \$100,000**

**THE FIRST NATIONAL BANK, \$50,000.—To be increased at once.**

**FOUNDRY & MACHINE SHOPS, \$25,000.**

**FURNITURE WORKS, \$15,000.**

**FLOURING MILLS, \$20,000, etc.**

500 men are now at work on the new railroad from Athens to the

## RICHEST IRON FIELDS IN THE SOUTH.

JUST EAST OF THE TOWN.

Only eight miles from Athens are **VEINS OF RED FOSSILIFEROUS ORE 11½ FEET THICK**, and 4 to 12 miles beyond are **THE LARGEST DEPOSITS OF BROWN ORES IN THE SOUTH**. The ores of both varieties, in addition to being inexhaustible, are both superior in quality to any ores of either variety at present mined in the South. An assertion that can be sustained. Coke can now be obtained at the lowest prices, and in addition a new railroad is now projected to the Cumberland Coal Fields, only 22 miles distant. These roads will give Athens **UNSURPASSED SHIPPING FACILITIES**. The road under construction will penetrate large deposits of Tennessee Variegated Marble; also an Unopened Timbered Region, and will develop the

### *Largest Colored Slate Deposits in the United States.*

These quarries are now being opened, and are pronounced by experts Absolutely Inexhaustible, and equal in quality to the finest Vermont Colored Slate.

## The ATHENS MINING & MANUFACTURING CO.

Have alone just contracted for the erection of over

**\$500,000 IN NEW MANUFACTURING ENTERPRISES**

At Athens, including a 100-ton Blast Furnace, cost \$300,000; Cotton Mills, cost \$150,000; Furniture Works, employing 200 men, cost \$100,000; Hotel, cost \$60,000; Water Works, Street Car Lines, &c. These improvements have been commenced which, added to other improvements projected, will add

**\$1,000,000 OF NEW MANUFACTURING ENTERPRISES TO ATHENS.**

The company desire to open correspondence with parties desiring to locate, and will extend liberal inducements in addition to gifts of sites in order to induce New Manufacturing Enterprises to locate in Athens. City property is doubling in value every few months, and at present low prices is beyond question a very fine investment.

## The Athens Mining & Manufacturing Company,

R. L. BRIGHE, President

R. J. FISHER, Secy. and Genl. Manager.



# ROME, GA.

**O**F all the growing cities in the growing South, Rome presents the greatest opening for money-making investments. With surrounding fields as rich as the lands of Goshen, with exhaustless deposits of brown and red Iron Ores and Manganese immediately at hand on all sides, with mountains of Marble and Limestone coming right up to the city, with an abundance of the best Coal easy of access, areas of untouched forests, and with seven railroad outlets and two navigable rivers, Rome stands, in natural advantages, pre-eminently above any other proud and pretentious city within the limits of this proud and ambitious commonwealth.

## THE HEALTH OF ROME IS UNSURPASSED.

*THE UNUSUALLY LOW DEATH RATE IS A PHENOMENON,  
STANDING WITHOUT A PEER AT 8.40 PER THOUSAND.  
NOT ONE CASE OF CATARRH OR CONSUMPTION EXISTS OR  
EVER ORIGINATED WITHIN HER LIMITS.*

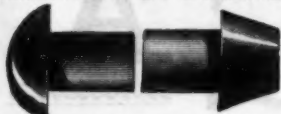
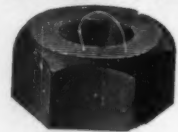
Rome has 12,000 inhabitants, has invested in colleges and school buildings about \$300,000; in church building over \$100,000; in her new hotel \$125,000; in the dummy line, just completed, over \$50,000. Her manufactories employ 800 hands, with other enterprises now going up. Her system of water-works and sewerage is unsurpassed. The city is lighted with gas, and negotiations for an electric light plant are now pending. The highways leading to the city are all well macadamized. The Post-office Department has recently made Rome a free postal delivery office. The annual business of the city is about \$12,000,000, with the trade constantly increasing. The yearly range of temperature at Rome, between the average highest and lowest, is about 84 degrees; the mean temperature is 60.6 degrees. About seven months intervene between the first and the last killing frosts of the year. There is no better society to be found anywhere.

The Rome Land Company (J. W. Rounsaville, President, T. F. Howell, Treasurer, and J. L. Bass, Secretary and Business Manager) will donate ample grounds to, and otherwise aid, any worthy manufacturing enterprise that may locate here.

Send for circulars and pamphlets.

# HOOPES & TOWNSEND,

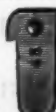
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**MACHINE AND CAR BOLTS,  
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MADE IN SOLID DIES,  
COLD PUNCHED, CHAMFERED, TRIMMED &  
DRILLED SQUARE & HEXAGON NUTS.

Bridge Rivets,  
Split and  
Single Keys.



WASHERS,  
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RIVETS.

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ESTABLISHED IN 1865.

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### LOCOMOTIVES.

Standard and Narrow-Gauge, for  
for every variety of service. Pole  
Road Locomotives and Cars, the only  
successful device of the kind made.

Stationary and Portable **ENGINES.** 12 to 300 Horse-Power.

Standard and Special, 12 to 300 horse-power.

Gas, Water, Creosoting and other heavy ma-  
chinery. Catalogues, specifications, photo-  
graphs and estimates furnished on application.

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STEEL RAILS

PENNSYLVANIA

Standard Sections  
Light Sections  
Street Rails

Fish Plates,  
Frogs, Switches

STEPHEN W. BALDWIN  
SALES AGENT

STEEL COMPANY

50 to 80 lbs. per yard  
16 " 45 " " "  
30 " 88 " " "  
Bolts & Nuts,  
and Crossings.

NO. 2 WALL STREET  
NEW YORK N.Y.

16 lbs. Full Size.

## BUCYRUS FOUNDRY & MFG. CO.

BUCYRUS, OHIO.

Builders of—

Steam Shovels,

Steam Dredges,

WRECKING CARS.

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MANUFACTURERS OF

\* FIRE BRICK, \*

Standard Sewer Pipe

AND CULVERT PIPE.

Double Strength, with Improved Sockets.

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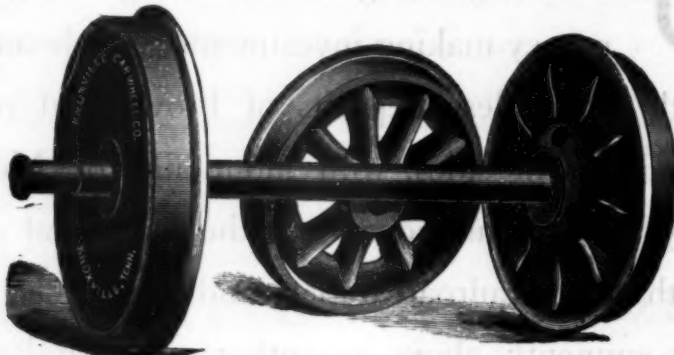
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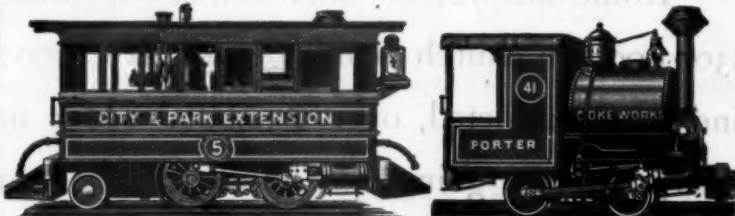
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## TRADE NOTES.

THE Georgia Steam & Gas Pipe Co. of Columbus, Ga., have contract for equipping the Clegg Cotton Factory of that city with pipes, Hill automatic sprinklers, &c. Where these sprinklers are used a fire is impossible, it is claimed.

THE United States Gutta Percha Paint Co., Providence, R. I., have kindly forwarded us a copy of picturesque Narragansett, for which they have our thanks. This firm is still having a large demand for their paint, the high standard of which is fully maintained.

THE N. Y., P. & O. (Erie) R. R. is the Pullman car line between Cincinnati and Lake Chautauqua, and is the only line landing passengers directly at the lake. Ask your nearest ticket agent for illustrated pamphlet describing Lake Chautauqua or send to W. C. Rineason, assistant general passenger agent, Cleveland, Ohio.

THE Shultz Belting Co., St. Louis, Mo., are having a most satisfactory trade on their patent folded leather belting and lace and picker leather. The popularity of these specialties is so great that in a recent letter they wrote—"we have more business than we can attend to." All orders, however, are filled in an entirely satisfactory manner to the trade.

THE Reliance Gauge Co., of Cleveland, Ohio, manufacturers of the well-known Reliance safety water columns, will be pleased to furnish electrotypes to all dealers who may wish to illustrate them in their catalogues. They are now recognized as a standard article of trade, and may already be found illustrated in the catalogues of some of the largest houses in the country.

THE Battle Creek Machinery Co., of Battle Creek, Mich., who make a specialty of moulding and dovetailing machinery for furniture and other wood-working establishments, report an active demand for their line of machinery from all parts of the country. Illustrated circular and samples of work done by their Boulit's patent independent dovetailer will be sent to parties interested upon application.

THE York Manufacturing Co., York, Pa., report the following business: "We are at present erecting one of our 5-ton machines at Durham, N. C., for Mr. C. M. Hendin and R. H. Atwater; are to-day shipping a machine to Water Valley Ice Co., Water Valley, Miss; and will ship next week one 5 ton ice machine each to Florence Ice Co., Florence, Ala., and Bessemer Cold Storage & Ice Manufacturing Co., Bessemer, and expect to have them all running in a few weeks." This concern has been very busy this year building ice machines, engines and boilers, etc., and has been running a greater part of the time 15 hours per day.

THOMAS K. CAREY & BROS., 31 S. Charles street, Baltimore, Md., are agents for Boston Belting Co's rubber belting, hose, etc.; Mt. Vernon rubber belting; Hoyt's short lap leather belting; Baltimore Standard leather belting; T. K. Earle Manufacturing Co., card clothing; Lathe & Morse Tool Co., lathes and planers; Dodge Independence wood split pulleys; Norton emery wheels; Diamond emery wheel machinery; Smith & Vaile, steam pumps; J. H. & N. A. Williams, shuttles, reeds, etc.; Carrier & Snyder, drill presses; E. E. Garvin & Co., milling and screw machines, etc.; W. F. & John Barnes Co., foot-power machinery, etc.; D. E. Whiton Machine Co's gear cutters, etc.; Hendey Machine Co's shapers, etc.; Sigourney Tool Co's drills; T. M. Nagle, engines and boilers; the Ide engines; Baxter engines; Imhauser's watchman's clocks; Potter belt hooks; Wilson belt hooks.

THE attention of capitalists is called to the advertisement of H. H. Reynolds, trustee, which appears in this issue. The property offered for sale is valuable, and consists of a fine residence, tobacco factory, storehouse and a large number of vacant lots. This property will be sold for spot cash, regardless of cost, and many bargains can doubtless be purchased. For full particulars see advertisement in our "for sale" columns.

WM. E. HILL & CO., of Kalamazoo, Mich., make a very full and complete line of labor-saving specialties for large saw mills. This machinery is well described and illustrated in a handsome new catalogue just issued. Every large saw mill in the South should have one on file for reference; sent free to the readers of this paper. This concern have just shipped a large log turner to Roanoke Lumber & Railroad Co., Roanoke, Va., and one to J. S. & W. M. Rica, Hyatt, Tex. The South is becoming a large market for these specialties.

THE Union Manufacturing Co., of Battle Creek, Mich., are negotiating for the sale of their famous patent lath machine patents to a large company composed of principal manufacturers of similar machinery. If the sale is consummated, this machine will undoubtedly supersede all others, and the lath of the future will be the patent board-lath made by this machine. The Union Manufacturing Co. also manufacture other wood-working machinery, among which is a picket machine that is becoming quite popular wherever known.

WILLIS & SCHENCK, New York, have been succeeded by the Schenck Belt Holder & Shifter Co., 93 Liberty street. This company has recently been incorporated under the laws of New York, capital \$25,000. In advising us of this change they wrote us: "We now have increased facilities and can meet all demands and rapidly fill all orders for belt holders and shifters. Our device has been successfully used in electric light plants and numerous other places where fast-running machinery is used. Satisfaction is guaranteed in every case, and testimonials are on file setting forth its value."

THE M. C. Bullock Manufacturing Co., No. 138 Jackson street, Chicago, Ill., manufacturers of mining machinery, report the following among recent shipments: To the Negaunee Mining Co., Negaunee, Mich., one 6x8-inch exploring hoist; to the Jackson Iron Co., Negaunee, Mich., one 6x8-inch exploring hoist; to the Chicago & Lemont Stone Co., Lemont, Ill., one 5 inch Eclipse rock drill outfit; to T. H. Riley, Joliet, Ill., one 3-inch Eclipse rock drill outfit; to the Deer Creek Coal Co., Glen Rock, Wyoming Territory, two 45 H. P. boilers, one pair 10x15-inch link motion engines, driving one pair of 60x66-inch drums; to the Atchison, Topeka & Santa Fe Railway Co., Chicago, Ill., one 3 1/2 inch Eclipse rock drill outfit; to Nast Brothers, Marblehead, Wis., one 3 1/2-inch Eclipse rock drill outfit; to the Detroit mine, Ishpeming, Mich., one new underground prospecting drill "Beauty."

ONE of the most important manufacturing enterprises of the season is the immense wood pulp mill now being erected at Piscataquis Falls, Me., by the Piscataquis Falls Pulp & Paper Co., a new corporation of which Eugene H. Clapp is president and S. L. Montague is treasurer. Both of these gentlemen are well-known citizens of Boston. This company is developing a splendid water power, having 22 feet fall, which will be utilized for driving the mill. The motive power will consist of eleven pairs of 30-inch and one pair of 35-inch horizontal Victor turbines, making 24 wheels, which they have ordered of Stilwell & Bierce Manufacturing Co., Dayton, Ohio. These wheels will develop nearly 3,500

horse power, all of which will be used, and is probably the largest order for water wheels ever placed at one time in this country. These Victor turbines have obtained great celebrity, and are in demand among the most discriminating consumers of water power.

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When visiting New York city, save baggage express and carriage hire, and stop at the Grand Union Hotel, opposite Grand Central Depot.

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SOME one has truly said there is but one American House, and that is in Boston. There is never any deviation in the management, and the result of minute attention to the details is shown in the splendid system and discipline that prevails throughout the hotel.

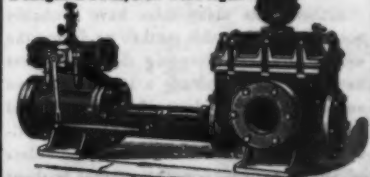
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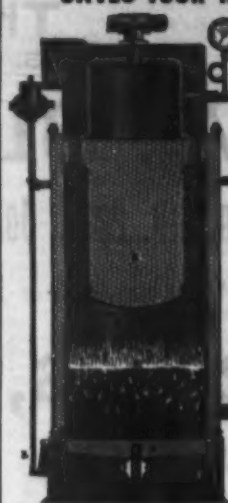


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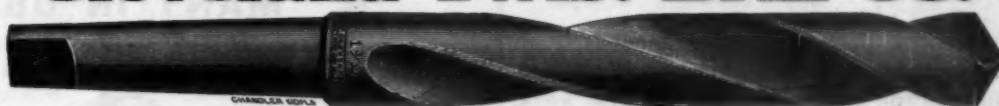
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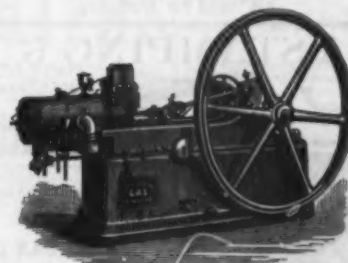
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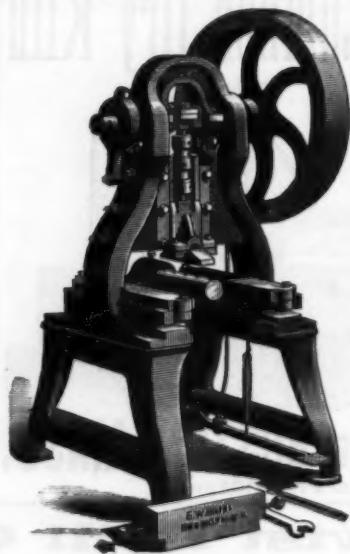
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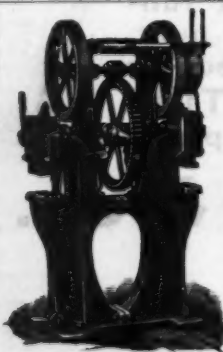
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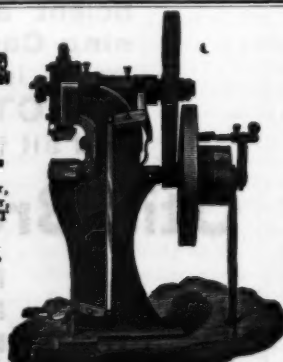


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Gen. (Coll.) List, April 19, 1880	dis 10 5
Standard—do do 1/2; 3/4; 1; 1 1/2; 2; 2 1/2; 3; 3 1/2; 4; 4 1/2; 5; 5 1/2; 6; 6 1/2; 7; 7 1/2; 8; 8 1/2; 9; 9 1/2; 10; 10 1/2; 11; 11 1/2; 12; 12 1/2; 13; 13 1/2; 14; 14 1/2; 15; 15 1/2; 16; 16 1/2; 17; 17 1/2; 18; 18 1/2; 19; 19 1/2; 20; 20 1/2; 21; 21 1/2; 22; 22 1/2; 23; 23 1/2; 24; 24 1/2; 25; 25 1/2; 26; 26 1/2; 27; 27 1/2; 28; 28 1/2; 29; 29 1/2; 30; 30 1/2; 31; 31 1/2; 32; 32 1/2; 33; 33 1/2; 34; 34 1/2; 35; 35 1/2; 36; 36 1/2; 37; 37 1/2; 38; 38 1/2; 39; 39 1/2; 40; 40 1/2; 41; 41 1/2; 42; 42 1/2; 43; 43 1/2; 44; 44 1/2; 45; 45 1/2; 46; 46 1/2; 47; 47 1/2; 48; 48 1/2; 49; 49 1/2; 50; 50 1/2; 51; 51 1/2; 52; 52 1/2; 53; 53 1/2; 54; 54 1/2; 55; 55 1/2; 56; 56 1/2; 57; 57 1/2; 58; 58 1/2; 59; 59 1/2; 60; 60 1/2; 61; 61 1/2; 62; 62 1/2; 63; 63 1/2; 64; 64 1/2; 65; 65 1/2; 66; 66 1/2; 67; 67 1/2; 68; 68 1/2; 69; 69 1/2; 70; 70 1/2; 71; 71 1/2; 72; 72 1/2; 73; 73 1/2; 74; 74 1/2; 75; 75 1/2; 76; 76 1/2; 77; 77 1/2; 78; 78 1/2; 79; 79 1/2; 80; 80 1/2; 81; 81 1/2; 82; 82 1/2; 83; 83 1/2; 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662; 662 1/2; 663; 663 1/2; 664; 664 1/2; 665; 665 1/2; 666; 666 1/2; 667; 667 1/2; 668; 668 1/2; 669; 669 1/2; 670; 670 1/2; 671; 671 1/2; 672; 672 1/2; 673; 673 1/2; 674; 674 1/2; 675; 675 1/2; 676; 676 1/2; 677; 677 1/2; 678; 678 1/2; 679; 679 1/2; 680; 680 1/2; 681; 681 1/2; 682; 682 1/2; 683; 683 1/2; 684; 684 1/2; 685; 685 1/2; 686; 686 1/2; 687; 687 1/2; 688; 688 1/2; 689; 689 1/2; 690; 690 1/2; 691; 691 1/2; 692; 692 1/2; 693; 693 1/2; 694; 694 1/2; 695; 695 1/2; 696; 696 1/2; 697; 697 1/2; 698; 698 1/2; 699; 699 1/2; 700; 700 1/2; 701; 701 1/2; 702; 702 1/2; 703; 703 1/2; 704; 704 1/2; 705; 705 1/2; 706; 706 1/2; 707; 707 1/2; 708; 708 1/2; 709; 709 1/2; 710; 710 1/2; 711; 711 1/2; 712; 712 1/2; 713; 713 1/2; 714; 714 1/2; 715; 715 1/2; 716; 716 1/2; 717; 717 1/2; 718; 718 1/2; 719; 719 1/2; 720; 720 1/2; 721; 721 1/2; 722; 722 1/2; 723; 723 1/2; 724; 724 1/2; 725; 725 1/2; 726; 726 1/2; 727; 727 1/2; 728; 728 1/2; 729; 729 1/2; 730; 730 1/2; 731; 731 1/2; 732; 732 1/2; 733; 733 1/2; 734; 734 1/2; 735; 735 1/2; 736; 736 1/2; 737; 737 1/2; 738; 738 1/2; 739; 739 1/2; 740; 740 1/2; 741; 741 1/2; 742; 742 1/2; 743; 743 1/2; 744; 744 1/2; 745; 745 1/2; 746; 746 1/2; 747; 747 1/2; 748; 748 1/2; 749; 749 1/2; 750; 750 1/2; 751; 751 1/2; 752; 752 1/2; 753; 753 1/2; 754; 754 1/2; 755; 755 1/2; 756; 756 1/2; 757; 757 1/2; 758; 758 1/2; 759; 759 1/2; 760; 760 1/2; 761; 761 1/2; 762; 762 1/2; 763; 763 1/2; 764; 764 1/2; 765; 765 1/2; 766; 766 1/2; 767; 767 1/2; 768; 768 1/2; 769; 769 1/2; 770; 770 1/2; 771; 771 1/2; 772; 772 1/2; 773; 773 1/2; 774; 774 1/2; 775; 775 1/2; 776; 776 1/2; 777; 777 1/2; 778; 778 1/2; 779; 779 1/2; 780; 780 1/2; 781; 781 1/2; 782; 782 1/2; 783; 783 1/2; 784; 784 1/2; 785; 785 1/2; 786; 786 1/2; 787; 787 1/2; 788; 788 1/2; 789; 789 1/2; 790; 790 1/2; 791; 791 1/2; 792; 792 1/2; 793; 793 1/2; 794; 794 1/2; 795; 795 1/2; 796; 796 1/2; 797; 797 1/2; 798; 798 1/2; 799; 799 1/2; 800; 800 1/2; 801; 801 1/2; 802; 802 1/2; 803; 803 1/2; 804; 804 1/2; 805; 805 1/2; 806; 806 1/2; 807; 807	



HORSE SHOES.	
Walker's Horse Shoes.....	\$4.00 per keg
Walker's Mule Shoes.....	\$5.00 per keg
Burden's Horse Shoes.....	\$4.10 per keg
Phoenix Light, Medium and Heavy Horse Shoes.....	\$4.10 per keg
Phoenix Forged Horse Shoes.....	\$5.10 per keg
Frog Pressure.....	\$5.00 per keg
Calked.....	\$5.05 per keg
Special.....	\$5.00 per keg
Bryden Calked Mule Shoes.....	\$6.00 per keg
Perkins Horse Shoes.....	\$4.10 per keg
"Mule".....	\$5.10 per keg
Ox Shoes—Mt. Carmel Ox Shoes.....	10 cts. each

ICE CREAM FREEZERS.	
Peerless—3 quart, \$4.50; 4 quart, \$5.50; 6 quart, \$7.00; 8 quart, \$8.00; 10 quart, \$9.00. Giant, with fly wheel—14 quart, \$10.00; 18 quart, \$11.00; 24 quart, \$12.00; 32 quart, \$13.00; 36 quart, \$14.00; 48 quart, \$15.00. Discount, 10% to 15%.	
American—3 quart, \$4.75; 4 quart, \$5.75; 6 quart, \$7.25; 8 quart, \$8.25; 10 quart, \$9.25; 12 quart, \$10.25; 14 quart, \$11.25; 16 quart, \$12.25; 18 quart, \$13.25; 20 quart, \$14.25; 24 quart, \$15.25; 32 quart, \$16.25; 36 quart, \$17.25; 48 quart, \$18.25. Discount, 10% to 15%.	
Crown, single action, 3 quart, \$4.50; 4 quart, \$5.50; 6 quart, \$7.00; 8 quart, \$8.00; 10 quart, \$9.00; 12 quart, \$10.00; 14 quart, \$11.00; 16 quart, \$12.00; 18 quart, \$13.00; 20 quart, \$14.00; 24 quart, \$15.00; 32 quart, \$16.00; 36 quart, \$17.00; 48 quart, \$18.00. Discount, 10% to 15%.	
Crown, double action, with crank, 8 quart, \$10.50; 10 quart, \$11.50; 12 quart, \$12.50; 14 quart, \$13.50; 16 quart, \$14.50; 18 quart, \$15.50; 20 quart, \$16.50; 24 quart, \$17.50; 32 quart, \$18.50; 36 quart, \$19.50; 48 quart, \$20.50. Discount, 10% to 15%.	
Star, double action, 3 quart, \$5.75; 4 quart, \$6.75; 6 quart, \$8.25; 8 quart, \$9.25; 10 quart, \$10.25; 12 quart, \$11.25; 14 quart, \$12.25; 16 quart, \$13.25; 18 quart, \$14.25; 20 quart, \$15.25; 24 quart, \$16.25; 32 quart, \$17.25; 36 quart, \$18.25; 48 quart, \$19.25. Discount, 10% to 15%.	
Gem, double action, 3 quart, \$5.75; 4 quart, \$6.75; 6 quart, \$8.25; 8 quart, \$9.25; 10 quart, \$10.25; 12 quart, \$11.25; 14 quart, \$12.25; 16 quart, \$13.25; 18 quart, \$14.25; 20 quart, \$15.25; 24 quart, \$16.25; 32 quart, \$17.25; 36 quart, \$18.25; 48 quart, \$19.25. Discount, 10% to 15%.	
Crown Ice Chippers.....	\$7.50 per set
Shepard's "Lightning".....	\$15.00 per set

KNIVES.	
Carriage, (Jap'd 8 c gross).....	\$15.00 per set
Base—Common.....	\$10.00 per set
Hemlock Door Knobs.....	new list, dis 25%
Door Mineral.....	
Door Por. Jap'd.....	Same discounts as Door Locks.
Door Por. Plated.....	
Door Por.....	
Furniture Plain.....	75c gross inch, dis 10%
Furniture Wood Screws.....	dis 25%
Picture.....	dis 10%
Hemlock Picture.....	dis 25%
Shutter, Porcelain.....	dis 10%

LADIES.	
Melting & Skim'g, Monroe's Pat. per doz \$4.15 55¢ doz	
Melting, C & C.....	dis 10%
LANTERNS.	
Owl Tubular, per doz.....	\$5.50 net
LAWN MOWERS.	
Acme Buckeye, Easy & Excelsior, new list, dis 40%	
LATHS.	
Lison Fish.....	dis 50%
Wire Clothes, Galvanized, 100 feet.....	per doz \$3.00

LOCKERS AND LATCHES.	
Cabinet, Eagle.....	Changes made in list price of some numbers Jan. 1, 1887, dis 25%
Cabinet, Gaylord.....	
Cabinet, Bridgeport.....	dis 40%
Cabinet, P. & F. Corbin.....	dis 40%
Trunk, new list, Jan. 1, 1887.....	dis 15%
Yale Lock Co., Flat Key.....	dis 40%
Plate.....	dis 33 1/3%
DOOR LOCKS, ETC.	
Branford.....	
Norwalk.....	
Norwich.....	
P. & F. Corbin.....	List of May 4th 1887, 50¢ doz & 25¢ cash.
Russell & Erwin.....	
Mallory, Wheeler & Co.....	
Nimick & Brittan Mfg. Co.....	
Padlocks—Russell & Erwin.....	dis 75%
Mallory, Wheeler & Co.....	dis 75%
Norwich Lock Mfg. Co.....	dis 75%
Wm. Wilcox & Co.....	dis 75%
Nimick & Brittan Mfg. Co.....	dis 75%
Wm. Wilcox & Co's Plate Locks.....	dis 33 1/3%
Yale Lock Mfg. Co's "Standard".....	dis 40%
Romer's.....	dis 40%
Conestoga.....	dis 40%
Scandinavian, "Norwich".....	dis 40%
Nimick & Brittan's Burglar-Proof Locks.....	dis 50%

MALLETS.	
Penfield Block Co., Apple, Hickory and Lignumvite.....	dis 30%
Ripley Mfg. Co.....	dis 30%

WHEAT CUTTERS.	
American.....	\$5.00 \$7.00 \$10.00 \$12.00 \$15.00
American, P. S. & W.....	\$5.00 \$7.00 \$10.00 \$12.00 \$15.00
Dixon's (P. S. & W.) No. 1.....	\$5.00 \$7.00 \$10.00 \$12.00 \$15.00
Perry's, Nos. 1, 2, 3, 4, 5, 6, 7, 8, 9, 10.....	\$5.00 \$7.00 \$10.00 \$12.00 \$15.00
Each.....	\$5.00 \$7.00 \$10.00 \$12.00 \$15.00
Woodruff's (P. S. & W.) No. 1.....	\$5.00 \$7.00 \$10.00 \$12.00 \$15.00
Each.....	\$5.00 \$7.00 \$10.00 \$12.00 \$15.00
Hales'.....	\$5.00 \$7.00 \$10.00 \$12.00 \$15.00
Beef Shaver, (Enterprise Mfg. Co.).....	dis 20%
MOLASSES GATES.	
Stebbins Pattern.....	dis 20%
Stebbins Genuine.....	dis 20%
Stebbins Tinned Ends.....	dis 20%
Chase's Hard Metal.....	dis 20%
Self-Measuring, (Enterprise).....	dis 20%
Lincoln's Pattern.....	dis 20%
Wend's.....	dis 20%
Beas Nos. 1, 2, 3, 4.....	dis 20%
Beas, Japanese Finish.....	dis 20%
Beas, Bronze Finish.....	dis 20%
Perfection.....	dis 20%
\$5.00 \$7.00 \$10.00 \$12.00 \$15.00 \$20.00 \$25.00	

NUTS AND WASHERS.	
Square Nuts.....	5-16 3/8 1/2 5/8 3/4 7/8 1 1 1/4 1 1/2 1 3/4 2 2 1/4 2 1/2 3 3 1/4 3 1/2 4 4 1/4 4 1/2 5 5 1/4 5 1/2 6 6 1/4 6 1/2 7 7 1/4 7 1/2 8 8 1/4 8 1/2 9 9 1/4 9 1/2 10 10 1/4 10 1/2 11 11 1/4 11 1/2 12 12 1/4 12 1/2 14 14 1/4 14 1/2 16 16 1/4 16 1/2 18 18 1/4 18 1/2 20 20 1/4 20 1/2 24 24 1/4 24 1/2 30 30 1/4 30 1/2 36 36 1/4 36 1/2 48 48 1/4 48 1/2
Hexagon Nuts.....	5-16 3/8 1/2 5/8 3/4 7/8 1 1 1/4 1 1/2 1 3/4 2 2 1/4 2 1/2 3 3 1/4 3 1/2 4 4 1/4 4 1/2 5 5 1/4 5 1/2 6 6 1/4 6 1/2 7 7 1/4 7 1/2 8 8 1/4 8 1/2 9 9 1/4 9 1/2 10 10 1/4 10 1/2 11 11 1/4 11 1/2 12 12 1/4 12 1/2 14 14 1/4 14 1/2 16 16 1/4 16 1/2 18 18 1/4 18 1/2 20 20 1/4 20 1/2 24 24 1/4 24 1/2 30 30 1/4 30 1/2 36 36 1/4 36 1/2 48 48 1/4 48 1/2
Washers.....	5-16 3/8 1/2 5/8 3/4 7/8 1 1 1/4 1 1/2 1 3/4 2 2 1/4 2 1/2 3 3 1/4 3 1/2 4 4 1/4 4 1/2 5 5 1/4 5 1/2 6 6 1/4 6 1/2 7 7 1/4 7 1/2 8 8 1/4 8 1/2 9 9 1/4 9 1/2 10 10 1/4 10 1/2 11 11 1/4 11 1/2 12 12 1/4 12 1/2 14 14 1/4 14 1/2 16 16 1/4 16 1/2 18 18 1/4 18 1/2 20 20 1/4 20 1/2 24 24 1/4 24 1/2 30 30 1/4 30 1/2 36 36 1/4 36 1/2 48 48 1/4 48 1/2

OILERS.	
Zinc and Tin.....	dis 60%
Brass and Copper.....	dis 50%
Malleable (Hammer).....	dis 10%
Per dozen.....	70 cts. net

PLATING MACHINES.	
Astor Plating Machine.....	each \$15, dis 20%
Crown Plating Machine.....	dis 25%
6 in., \$5; 10 in., \$8 each.	

PLANES AND PLANE IRONS.	
Meriden Malleable Iron Co., Iron planes.....	dis 30%
Bench, First Quality.....	dis 40%
Bench, Second Quality.....	dis 50%
Molding.....	dis 50%
Bell's (Stanley R. & L. Co.) New list, Jan. 1, 1887.....	dis 20%
The Stanley (R. & L. Co.) new list, January 1887.....	dis 20%
Bell's.....	dis 20%
Plane Irons, Bench's.....	dis 20%
Plane Irons, Auburn Tool Co.....	dis 20%

Plane Iron, Ohio Tool Co.....	dis 20%
Plane Irons, Sandusky Tool Co.....	dis 20%
Middlesex Mfg. Co., single and cut.....	dis 20%
Middlesex Mfg. Co., double.....	dis 20%

PLIERS AND NIPPERS.	
Burton's Patent.....	dis 20%
Hall's Pat. Compound Lever Cutting Nippers.....	dis 20%
No. 2, 5 in. \$13.50; No. 4, 7 in., \$17.00; No. 6, 9 in., \$21.00; No. 8, 11 in., \$25.00; No. 10, 13 in., \$29.00; No. 12, 15 in., \$33.00; No. 14, 17 in., \$37.00; No. 16, 19 in., \$41.00; No. 18, 21 in., \$45.00; No. 20, 23 in., \$49.00; No. 22, 25 in., \$53.00; No. 24, 27 in., \$57.00; No. 26, 29 in., \$61.00; No. 28, 31 in., \$65.00; No. 30, 33 in., \$69.00; No. 32, 35 in., \$73.00; No. 34, 37 in., \$77.00; No. 36, 39 in., \$81.00; No. 38, 41 in., \$85.00; No. 40, 43 in., \$89.00; No. 42, 45 in., \$93.00; No. 44, 47 in., \$97.00; No. 46, 49 in., \$101.00; No. 48, 51 in., \$105.00; No. 50, 53 in., \$109.00; No. 52, 55 in., \$113.00; No. 54, 57 in., \$117.00; No. 56, 59 in., \$121.00; No. 58, 61 in., \$125.00; No. 60, 63 in., \$129.00; No. 62, 65 in., \$133.00; No. 64, 67 in., \$137.00; No. 66, 69 in., \$141.00; No. 68, 71 in., \$145.00; No. 70, 73 in., \$149.00; No. 72, 75 in., \$153.00; No. 74, 77 in., \$157.00; No. 76, 79 in., \$161.00; No. 78, 81 in., \$165.00; No. 80, 83 in., \$169.00; No. 82, 85 in., \$173.00; No. 84, 87 in., \$177.00; No. 86, 89 in., \$181.00; No. 88, 91 in., \$185.00; No. 90, 93 in., \$189.00; No. 92, 95 in., \$193.00; No. 94, 97 in., \$197.00; No. 96, 99 in., \$201.00; No. 98, 101 in., \$205.00; No. 100, 103 in., \$209.00; No. 102, 105 in., \$213.00; No. 104, 107 in., \$217.00; No. 106, 109 in., \$221.00; No. 108, 111 in., \$225.00; No. 110, 113 in., \$229.00; No. 112, 115 in., \$233.00; No. 114, 117 in., \$237.00; No. 116, 119 in., \$241.00; No. 118, 121 in., \$245.00; No. 120, 123 in., \$249.00; No. 122, 125 in., \$253.00; No. 124, 127 in., \$257.00; No. 126, 129 in., \$261.00; No. 128, 131 in., \$265.00; No. 130, 133 in., \$269.00; No. 132, 135 in., \$273.00; No. 134, 137 in., \$277.00; No. 136, 139 in., \$281.00; No. 138, 141 in., \$285.00; No. 140, 143 in., \$289.00; No. 142, 145 in., \$293.00; No. 144, 147 in., \$297.00; No. 146, 149 in., \$301.00; No. 148, 151 in., \$305.00; No. 150, 153 in., \$309.00; No. 152, 155 in., \$313.00; No. 154, 157 in., \$317.00; No. 156, 159 in., \$321.00; No. 158, 161 in., \$325.00; No. 160, 163 in., \$329.00; No. 162, 165 in., \$333.00; No. 164, 167 in., \$337.00; No. 166, 169 in., \$341.00; No. 168, 171 in., \$345.00; No. 170, 173 in., \$349.00; No. 172, 175 in., \$353.00; No. 174, 177 in., \$357.00; No. 176, 179 in., \$361.00; No. 178, 181 in., \$365.00; No. 180, 183 in., \$369.00; No. 182, 185 in., \$373.00; No. 184, 187 in., \$377.00; No. 186, 189 in., \$381.00; No. 188, 191 in., \$385.00; No. 190, 193 in., \$389.00; No. 192, 195 in., \$393.00; No. 194, 197 in., \$397.00; No. 196, 199 in., \$401.00; No. 198, 201 in., \$405.00; No. 200, 203 in., \$409.00; No. 202, 205 in., \$413.00; No. 204, 207 in., \$417.00; No. 206, 209 in., \$421.00; No. 208, 211 in., \$425.00; No. 210, 213 in., \$429.00; No. 212, 215 in., \$433.00; No. 214, 217 in., \$437.00; No. 216, 219 in., \$441.00; No. 218, 221 in., \$445.00; No. 220, 223 in., \$449.00; No. 222, 225 in., \$453.00; No. 224, 227 in., \$457.00; No. 226, 229 in., \$461.00; No. 228, 231 in., \$465.00; No. 230, 233 in., \$469.00; No. 232, 235 in., \$473.00; No. 234, 237 in., \$477.00; No. 236, 239 in., \$481.00; No. 238, 241 in., \$485.00; No. 240, 243 in., \$489.00; No. 242, 245 in., \$493.00; No. 244, 247 in., \$497.00; No. 246, 249 in., \$501.00; No. 248, 251 in., \$505.00; No. 250, 253 in., \$509.00; No. 252, 255 in., \$513.00; No. 254, 257 in., \$517.00; No. 256, 259 in., \$521.00; No. 258, 261 in., \$525.00; No. 260, 263 in., \$529.00; No. 262, 265 in., \$533.00; No. 264, 267 in., \$537.00; No. 266, 269 in., \$541.00; No. 268, 271 in., \$545.00; No. 270, 273 in., \$549.00; No. 272, 275 in., \$553.00; No. 274, 277 in., \$557.00; No. 276, 279 in., \$561.00; No. 278, 281 in., \$565.00; No. 280, 283 in., \$569.00; No. 282, 285 in., \$573.00; No. 284, 287 in., \$577.00; No. 286, 289 in., \$581.00; No. 288, 291 in., \$585.00; No. 290, 293 in., \$589.00; No. 292, 295 in., \$593.00; No. 294, 297 in., \$597.00; No. 296, 299 in., \$601.00; No. 298, 301 in., \$605.00; No. 300, 303 in., \$609.00; No. 302, 305 in., \$613.00; No. 304, 307 in., \$617.00; No. 306, 309 in., \$621.00; No. 308, 311 in., \$625.00; No. 310, 313 in., \$629.00; No. 312, 315 in., \$633.00; No. 314, 317 in., \$637.00; No. 316, 319 in., \$641.00; No. 318, 321 in., \$645.00; No. 320, 323 in., \$649.00; No. 322, 325 in., \$653.00; No. 324, 327 in., \$657.00; No. 326, 329 in., \$661.00; No. 328, 331 in., \$665.00; No. 330, 333 in., \$669.00; No. 332, 335 in., \$673.00; No. 334, 337 in., \$677.00; No. 336, 339 in., \$681.00; No. 338, 341 in., \$685.00; No. 340, 343 in., \$689.00; No. 342, 345 in., \$693.00; No. 344, 347 in., \$697.00; No. 346, 349 in., \$701.00; No. 348, 351 in., \$705.00; No. 350, 353 in., \$709.00; No. 352, 355 in., \$713.00; No. 354, 357 in., \$717.00; No. 356, 359 in., \$721.00; No. 358, 361 in., \$725.00; No. 360, 363 in., \$729.00; No. 362, 365 in., \$733.00; No. 364, 367 in., \$737.00; No. 366, 369 in., \$741.00; No. 368, 371 in., \$745.00; No. 370, 373 in., \$749.00; No. 372, 375 in., \$753.00; No. 374, 377 in., \$757.00; No. 376, 379 in., \$761.00; No. 378, 381 in., \$765.00; No. 380, 383 in., \$769.00; No. 382, 385 in., \$773.00; No. 384, 387 in., \$777.00; No. 386, 389 in., \$781.00; No. 388, 391 in., \$785.00; No. 390, 393 in., \$789.00; No. 392, 395 in., \$793.00; No. 394, 397 in., \$797.00; No. 396, 399 in., \$801.00; No. 398, 401 in., \$805.00; No. 400, 403 in., \$809.00; No. 402, 405 in., \$813.00; No. 404, 407 in., \$817.00; No. 406, 409 in., \$821.00; No. 408, 411 in., \$825.00; No. 410, 413 in., \$829.00; No. 412, 415 in., \$833.00; No. 414, 417 in., \$837.00; No. 416, 419 in., \$841.00; No. 418, 421 in., \$845.00; No. 420, 423 in., \$849.00; No. 422, 425 in., \$853.00; No. 424, 427 in., \$857.00; No. 426, 429 in., \$861.00; No. 428, 431 in., \$865.00; No. 430, 433 in., \$869.00; No. 432, 435 in., \$873.00; No. 434, 437 in., \$877.00; No. 436, 439 in., \$881.00; No. 438, 441 in., \$885.00; No. 440, 443 in., \$889.00; No. 442, 445 in., \$893.00; No. 444, 447 in., \$897.00; No. 446, 449 in., \$901.00; No. 448, 451 in., \$905.00; No. 450, 453 in., \$909.00; No. 452, 455 in., \$913.00; No. 454, 457 in., \$917.00; No. 456, 459 in., \$921.00; No. 458, 461 in., \$925.00; No. 460, 463 in., \$929.00; No. 462, 465 in., \$933.00; No. 464, 467 in., \$937.00; No. 466, 469 in., \$941.00; No. 468, 471 in., \$945.00; No. 470, 473 in., \$949.00; No. 472, 475 in., \$953.00; No. 474, 477 in., \$957.00; No. 476, 479 in., \$961.00; No. 478, 481 in., \$965.00; No. 480, 483 in., \$969.00; No. 482, 485 in., \$973.00; No. 484, 487 in., \$977.00; No. 486, 489 in., \$981.00; No. 488, 491 in., \$985.00; No. 490, 493 in., \$989.00; No. 492, 495 in., \$993.00; No. 494, 497 in., \$997.00; No. 496, 499 in., \$1001.00; No. 498, 501 in., \$1005.00; No. 500, 503 in., \$1009.00; No. 502, 505 in., \$1013.00; No. 504, 507 in., \$1017.00; No. 506, 509 in., \$1021.00; No. 508, 511 in., \$1025.00; No. 510, 513 in., \$1029.00; No. 512, 515 in., \$1033.00; No. 514, 517 in., \$1037.00; 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No. 586, 589 in., \$1181.00; No. 588, 591 in., \$1185.00; No. 590, 593 in., \$1189.00; No. 592, 595 in., \$1193.00; No. 594, 597 in., \$1197.00; No. 596, 599 in., \$1201.00; No. 598, 601 in., \$1205.00; No. 600, 603 in., \$1209.00; No. 602, 605 in., \$1213.00; No. 604, 607 in., \$1217.00; No. 606, 609 in., \$1221.00; No. 608, 611 in., \$1225.00; No. 610, 613 in., \$1229.00; No. 612, 615 in., \$1233.00; No. 614, 617 in., \$1237.00; No. 616, 619 in., \$1241.00; No. 618, 621 in., \$1245.00; No. 620, 623 in., \$1249.00; No. 622, 625 in., \$1253.00; No. 624, 627 in., \$1257.00; No. 626, 629 in., \$1261.00; No. 628, 631 in., \$1265.00; No. 630, 633 in., \$1269.00; No. 632, 635 in., \$1273.00; No. 634, 637 in., \$1277.00; No. 636, 639 in., \$1281.00; No. 638, 641 in., \$1285.00; No. 640, 643 in., \$1289.00; No. 642, 645 in., \$1293.00; No. 644, 647 in., \$1297.00; No. 646, 649 in., \$1301.00; No. 648, 651 in., \$1305.00; No. 650, 653 in., \$1309.00; No. 652, 655 in., \$1313.00; No. 654, 657 in., \$1317.00; No. 656, 659 in., \$1321.00; No. 658, 661 in., \$1325.00; No. 660, 663 in., \$1329.00; No. 662, 665 in., \$1333.00; No. 664, 667 in., \$1337.00; No. 666, 669 in., \$1341.00; No. 668, 671 in., \$1345.00; No. 670, 673 in., \$1349.00; No. 672, 675 in., \$1353.00; No. 674, 677 in., \$1357.00; No. 676, 679 in., \$1361.00; No. 678, 681 in., \$1365.00; No. 680, 683 in., \$1369.00; No. 682, 685 in., \$1373.00; No. 684, 687 in., \$1377.00; No. 686, 689 in., \$1381.00; No. 688, 691 in., \$1385.00; No. 690, 693 in., \$1389.00; No. 692, 695 in., \$1393.00; No. 694, 697 in., \$1397.00; No. 696, 699 in., \$1401.00; No. 698, 701 in., \$1405.00; No. 700, 703 in., \$1409.00; No. 702, 705 in., \$1413.00; No. 704, 707 in., \$1417.00; No. 706, 709 in., \$1421.00; No. 708, 711 in., \$1425.00; No. 710, 713 in., \$1429.00; No. 712, 715 in., \$1433.00; No. 714, 717 in., \$1437.00; No. 716, 719 in., \$1441.00; No. 718, 721 in., \$1445.00; No. 720, 723 in., \$1449.00; No. 722, 725 in., \$1453.00; No. 724, 727 in., \$1457.00; No. 726, 729 in., \$1461.00; No. 728, 731 in., \$1465.00; No. 730, 733 in., \$1469.00; No. 732, 735 in., \$1473.00; No. 734, 737 in., \$1477.00; No. 736, 739 in., \$1481.00; No. 738, 741 in., \$1485.00; No. 740, 743 in., \$1489.00; No. 742, 745 in., \$1493.00; No. 744, 747 in., \$1497.00; No. 746, 749 in., \$1501.00; No. 748, 751 in., \$1505.00; No. 750, 753 in., \$1509.00; No. 752, 755 in., \$1513.00; No. 754, 757 in., \$1517.00; No. 756, 759 in., \$1521.00; No. 758, 761 in., \$1525.00; No. 760, 763 in., \$1529.00; No. 762, 765 in., \$1533.00; No. 764, 767 in., \$1537.00; No. 766, 769 in., \$1541.00; No. 768, 771 in., \$1545.00; No. 770, 773 in., \$1549.00; No. 772, 775 in., \$1553.00; No. 774, 777 in., \$1557.00; No. 776, 779 in., \$1561.00; No. 778, 781 in., \$1565.00; No. 780, 783 in., \$1569.00; No. 782, 785 in., \$1573.00; No. 784, 787 in., \$1577.00; No. 786, 789 in., \$1581.00; No. 788, 791 in., \$1585.00; No. 790, 793 in., \$1589.00; No. 792, 795 in., \$1593.00; No. 794, 797 in., \$1597.00; No. 796, 799 in., \$1601.00; No. 798, 801 in., \$1605.00; No. 800, 803 in., \$1609.00; No. 802, 805 in., \$1613.00; No. 804, 807 in., \$1617.00; No. 806, 809 in., \$1621.00; No. 808, 811 in., \$1625.00; No. 810, 813 in., \$1629.00; No. 812, 815 in., \$1633.00; No. 814, 817 in., \$1637.00; No. 816, 819 in., \$1641.00; No. 818, 821 in., \$1645.00; No. 820, 823 in., \$1649.00; No. 822, 825 in., \$1653.00; No. 824, 827 in., \$1657.00; No. 826, 829 in., \$1661.00; No. 828, 831 in., \$1665.00; No. 830, 833 in., \$1669.00; No. 832, 835 in., \$1673.00; No. 834, 837 in., \$1677.00; No. 836, 839 in., \$1681.00; No. 838, 841 in., \$1685.00; No. 840, 843 in., \$1689.00; No. 842, 845 in., \$1693.00; No. 844, 847 in., \$1697.00; No. 846, 849 in., \$1701.00; No. 848, 851 in., \$1705.00; No. 850, 853 in., \$1709.00; No. 852, 855 in., \$1713.00; No. 854, 857 in., \$1717.00; No. 856, 859 in., \$1721.00; No. 858, 861 in., \$1725.00; No. 860, 863 in., \$1729.00; No. 862, 865 in., \$1733.00; No. 864, 867 in., \$1737.00; No. 866, 869 in., \$1741.00; No. 868, 871 in., \$1745.00; No. 870, 873 in., \$1749.00; No. 872, 875 in., \$1753.00; No. 874, 877 in., \$1757.00; No. 876, 879 in., \$1761.00; No. 878, 881 in., \$1765.00; No. 880, 883 in., \$1769.00; No. 882, 885 in., \$1773.00; No. 884, 887 in., \$1777.00; No. 886, 889 in., \$1781.00; No. 888, 891 in., \$1785.00; No. 890, 893 in., \$1789.00; No. 892, 895 in., \$1793.00; No. 894, 897 in., \$1797.00; No. 896, 899 in., \$1801.00; No. 898, 901 in., \$1805.00; No. 900, 903 in., \$1809.00; No. 902, 905 in., \$1813.00; No. 904, 907 in., \$1817.00; No. 906, 909 in., \$1821.00; No. 908, 911 in., \$1825.00; No. 910, 913 in., \$1829.00; No. 912, 915 in., \$1833.00; No. 914, 917 in., \$1837.00; No. 916, 919 in., \$1841.00; No. 918, 921 in., \$1845.00; No. 920, 923 in., \$1849.00; No. 922, 925 in., \$1853.00; No. 924, 927 in., \$1857.00; No. 926, 929 in., \$1861.00; No. 928, 931 in., \$1865.00; No. 930, 933 in., \$1869.00; No. 932, 935 in., \$1873.00; No. 934, 937 in., \$1877.00; No. 936, 939 in., \$1881.00; No. 938, 941 in., \$1885.00; No. 940, 943 in., \$1889.00; No. 942, 945 in., \$1893.00; No. 944, 947 in., \$1897.00; No. 946, 949 in., \$1901.00; No. 948, 951 in., \$1905.00; No. 950, 953 in., \$1909.00; No. 952, 955 in., \$1913.00; No. 954, 957 in., \$1917.00; No. 956, 959 in., \$1921.00; No. 958, 961 in., \$1925.00; No. 960, 963 in., \$1929.00; No. 962, 965 in., \$1933.00; No. 964, 967 in., \$1937.00; No. 966, 969 in., \$1941.00; No. 968, 971 in., \$1945.00; No. 970, 973 in., \$1949.00; No. 972, 975 in., \$1953.00; No. 974, 977 in., \$1957.00; No. 976, 979 in., \$1961.00; No. 978, 981 in., \$1965.00; No. 980, 983 in., \$1969.00; No. 982, 985 in., \$1973.00; No. 984, 987 in., \$1977.00; No. 986, 989 in., \$1981.00; No. 988, 991 in., \$1985.00; No. 990, 993 in., \$1989.00; No. 992, 995 in., \$1993.00; No. 994, 997 in., \$1997.00; No. 996, 999 in., \$2001.00; No. 1000, 1003 in., \$2005.00; No. 1002, 1005 in., \$2009.00; No. 1004, 1007 in., \$2013.00; No. 1006, 1009 in., \$2017.00; 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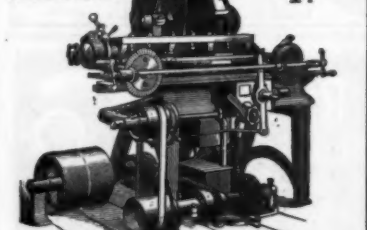
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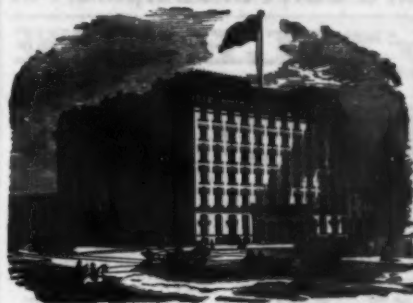
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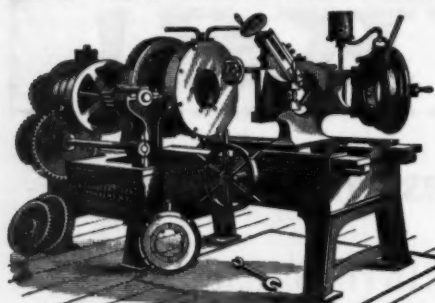
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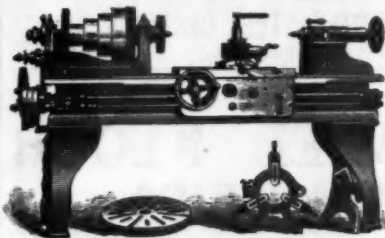
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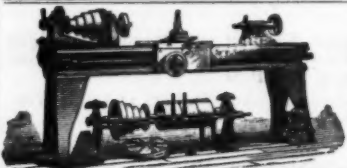


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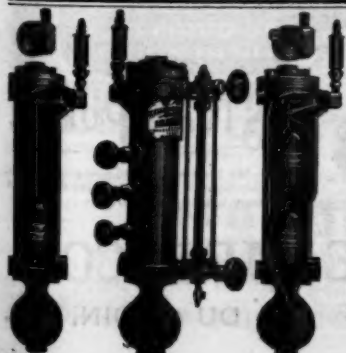
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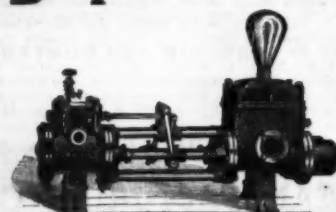
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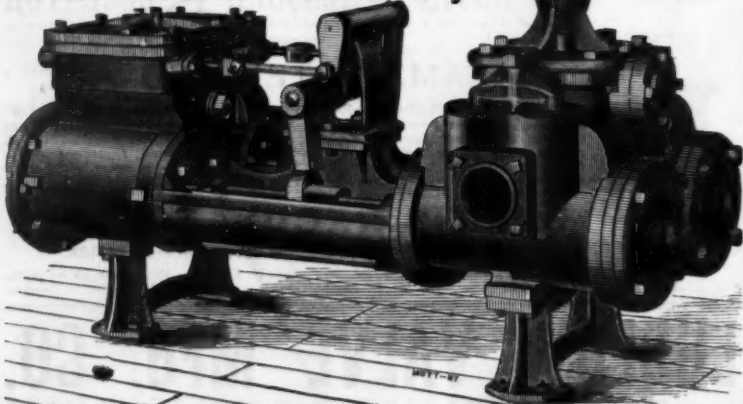
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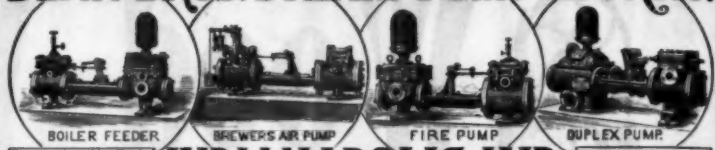
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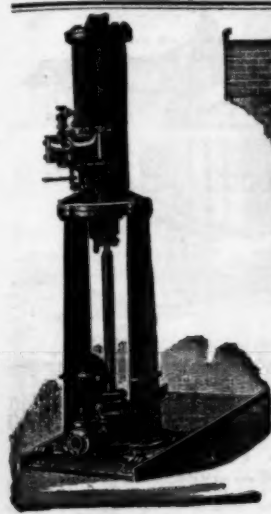
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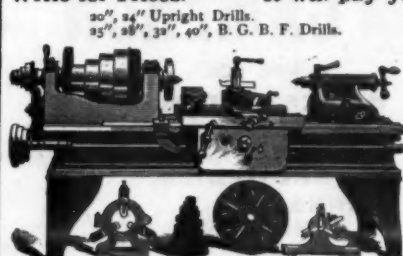


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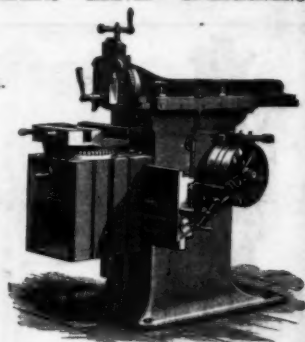
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